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Board of Grain Commissioners FOR CANADA

DEPARTMENT OF TRADE AND COMMERCE

Rt. Hon. C.D. Howe M.P. Minister, Wm. Frederick Bull, Deputy Minister

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Report for 1954

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BOARD OF
GRAIN COMMISSIONERS FOR CANADA

ANNUAL REPORT
for
1954



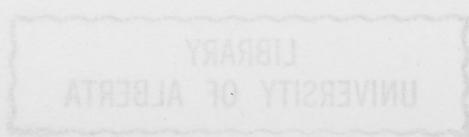
DEPARTMENT OF TRADE AND COMMERCE
OTTAWA, CANADA

Minister:
RT. HON. C. D. HOWE, M.P.

Deputy Minister:
WM. FREDERICK BULL

EDMOND CLOUTIER, C.M.G., O.A., D.S.P.
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TABLE OF CONTENTS

	PAGE
General.....	9
Licensing and Bonding.....	10
Assistant Commissioners.....	10
Prosecutions.....	11
Shortages and Overages—Country Elevators.....	11
Car Order Book.....	12
Regulations of the Board.....	12
Inspection of Grain.....	13
Grain Drying.....	14
Research.....	14
Committees on Grain Standards.....	14
Complaints on Export Shipments.....	15
Weighing of Grain.....	15
Weighover of Stocks—Terminal and Eastern Elevators.....	15
Terminal and Eastern Complaints.....	15
Statistics.....	15
Information Program.....	16
Storage of Foreign Grain for Reshipment from Canada.....	16
Lake Freight Rates.....	16
Transport Controller.....	16
Canadian Government Elevators.....	16
Organization and Personnel.....	17
Expenditure and Revenue.....	18
 APPENDICES:	
A—Weighover Statements.....	19
B—Committees on Grain Standards, 1954.....	26
C—Grain Appeal Tribunals.....	27
D—Licence and Bonding Branch.....	28
E—Registration Branch.....	31
F—Inspection Branch.....	33
G—Weighing Branch.....	46
H—Statistics Branch.....	49
I—Grain Research Laboratory.....	59
J—Canadian Government Elevators.....	62
K—Revenue and Expenditure.....	64
L—Regulations.....	69
M—List of Board Publications.....	69

LIST OF TABLES

	PAGE
APPENDIX A—Weighover Statements	
Table A- 1 Overages and Shortages disclosed by Weighovers of Grain Stored in Public Terminal Elevators, Crop Year 1953-54.....	19
A- 2 Excesses and Deficiencies in Specified Grades of Wheat Disclosed by Weighovers of Grain Stored in Public Terminal Elevators, Crop Year 1953-54.....	20
A- 3 Excesses and Deficiencies in Specified Grades of Wheat Disclosed by Weighovers of Grain Stored in Semi-Public Terminal Elevators, Crop Year 1953-54.....	21
A- 4 Excesses and Deficiencies in Specified Grades of Wheat Disclosed by Weighovers of Grain Stored in Private Terminal Elevators, Crop Year 1953-54.....	23
A- 5 Overages and Shortages Disclosed by Weighovers of Canada Western and Foreign Grain Stored in Eastern Elevators, Crop Year 1953-54	23
APPENDIX D—Licence and Bonding Branch	
Table D- 1 Number and Kind of Licences Issued and Licensed Storage Capacity as at December 1st each year for the Past Five Years.....	29
D- 2 Amounts Collected and Grain Purchased under the One Per Cent Levy, Prairie Farm Assistance Act, for period August 1, 1953 to July 31, 1954	30
APPENDIX E—Registration Branch	
Table E- 1 Warehouse Receipt Registrations for Receipts and Shipments at Public and Semi-Public Terminal Elevators and Eastern Elevators by Area and Grain, Crop Year 1953-54 and 10-year Average.....	32
APPENDIX F—Grain Inspection Branch	
Table F- 1 Primary Carlot Inspections, by Grains, from August 1, 1953 to July 31, 1954, compared with 1952-53 and 10-year Average 1943-44 to 1952-53	34
F- 2 Primary Carlot Inspections, by Points, from August 1, 1953 to July 31, 1954, compared with 1952-53 and 10-year Average 1943-44 to 1952-53	34
F- 3 Primary Carlot Inspections from August 1, 1953 to July 31, 1954, by Grain and Grades.....	35
F- 4 Carlots of Tough, Damp and Straight Grain Inspected at Primary Inspection Points, August 1, 1953 to July 31, 1954.....	38
F- 5 Number of Two-Pound Samples "Subject to Grade and Dockage" Inspected during Crop Year 1953-54 compared with the Crop Year 1952-53.....	38
F- 6 Carlots Re-inspected from August 1, 1953 to July 31, 1954.....	39
F- 7 Summary of Carlot InspectionsAppealed during the Crop Year 1953-54	39

LIST OF TABLES—Continued

APPENDIX F—*Grain Inspection Branch* (Continued)

	PAGE
Table F- 8 Quantities of the Various Grains Inspected and Shipped by Vessel during the Crop Year 1953-54.....	40
F- 9 Outward Cars Inspected—Crop Year August 1, 1953 to July 31, 1954, Out of Public, Semi-Public and Private Elevators.....	40
F-10 Total Carlot, Cargo and Bin Inspections, Crop Year 1953-54.....	41
F-11 Carlots, Cargoes and Bins Sampled but not Inspected (Fees Collected), Crop Year 1953-54.....	41
F-12 Western, Eastern and Foreign Grain Sampled for Export, Export in Bags and Inward, by Points (Fees not collected), Crop Year 1953-54..	42
F-13 Carlot Inspections from August 1, 1953 to July 31, 1954, by Grains, Grades and Points.....	42

APPENDIX G—*Grain Weighing Branch*

Table G- 1 Gross Quantities of All Grains Weighed at Terminal Elevators in the Western Division during 1953-54 Crop Year.....	47
G- 2 Number of Cars Leaking and Cars with Missing Seals at the Lakehead, at Other Points and at Winnipeg Yards, by Railways, for the Crop Year 1953-54.....	48
G- 3 Number of Cars Weighed at all Points and Percentage of such Cars found Leaking or with Defective Seals, Crop Years 1952-53 and 1953-54	48
G- 4 Average Reported Outturn Shortages on Vessel Shipments of Grain from Fort William-Port Arthur to Canadian and United States ports during the 1953-54 Crop Year.....	48

APPENDIX H—*Statistics Branch*

Table H- 1 Supply and Disposition of Canadian Grain, Crop Year 1953-54.....	51
H- 2 Production and Producers' Marketings in Western Canada, by Provinces, Crop Year 1953-54.....	52
H- 3 Receipts and Shipments at Eastern Elevators, Crop Year 1953-54....	53
H- 4 Shipments of Foreign Grain from Canadian Elevators into Canadian Consumer Channels, Crop Year 1953-54.....	53
H- 5 Receipts and Shipments of Canadian Grain at Terminal Elevators, Crop Year 1953-54.....	54
H- 6 Supply and Disposition of Canadian Grain in United States Positions, Crop Year 1953-54.....	54
H- 7 Exports of Canadian Wheat, by Seaboard Sectors, by Months, Crop Year 1953-54.....	55
H- 8 Overseas Exports of Canadian Grain, by Seaboard Sectors, by Grades, Crop Year 1953-54.....	56
H- 9 Overseas Exports of Canadian Grain, by Ports, Crop Year 1953-54....	57
H-10 Weighted Average Lake Freight Rates on Canadian Grain from Fort William-Port Arthur, Season of Navigation 1954.....	57
H-11 Tough and Damp Grain Dried, by Storage Position, Crop Year 1953-54	58

LIST OF TABLES—*Concluded*

APPENDIX K—Revenue and Expenditure	PAGE
Table K- 1 Revenue, by Point and Branch, Fiscal Year ended March 31, 1954....	64
K- 2 Expenditure, by Point, Branch and General Item, Fiscal Year ended March 31, 1954.....	65
K- 3 Summary of Operations by Branches, Fiscal Year ended March 31, 1954	66
K- 4 Revenue and Expenditure, by Points and Branches, Fiscal Year ended March 31, 1954.....	67

for the months August 1, 1953 to June 30, 1954, expenditures and revenues for the period April 1, 1953 to March 31, 1954, and statements of the activities of the Board and its branches for the 1953 calendar year.

Comparisons are given in the first and main portion of this report and in the tables submitted by various branches and supported by data given in Appendices A to M which follow the main section.

General

The 1953-54 crop year began with a carryover of 845 million bushels of the five principal grains at the end of August 1, 1953. To this was added a production estimated by the Dominion Bureau of Statistics at 1,329 million bushels to give a total available supply of 1,974 million bushels of the five principal grains in disposition. Comparable figures for the previous crop year show a carryover of 116 and a record production of 1,353 to make a total supply of 1,379 million bushels.

Commercial disappearance of Canadian grain during 1953-54 amounted to 1,116 million bushels or 56 per cent of supply. Of this 416 million were exported and 699 million bushels were used for domestic needs including 116 million for consumption. These figures show a decline of 146 million bushels (or 12 per cent) in export from the previous record year, and 37 million bushels added to domestic use. Resulting carryover is 859 million bushels of the five principal grains on farms, in elevators and terminals. This compares with 757 million bushels going into the 1954-55 crop year. Wheat made up 500 million bushels.

In the spring, a severe rust epidemic and inclined harvesting weather had made the 1953 harvest at 814 million bushels one of the lowest in recent years. The record carryover referred to above together with this reduced a total supply of 1,697 million bushels of the five grains.

The sustained high volume of production and handling demanded a correspondingly high volume of work and services from the Board's offices and staff to facilitate the movement of grain. Filled storage facilities created some problems but while there was very little storage of grain resulting from this

the comparative table given below shows production, movement and disappearance of the five principal grains. For more detailed background information on production, disposition and carryover data are given in the Statistical Branch, Appendix H.

WINNIPEG, Manitoba,
January 21, 1955.

The Right Honourable C. D. Howe, M.P.,
Minister of Trade and Commerce,
Ottawa, Canada.

SIR,—We beg to submit herewith Annual Report of the Board of Grain Commissioners for Canada for the year 1954 in compliance with section 23 of the Canada Grain Act.

This report records information and statistics relating to grain handlings for the crop year August 1, 1953 to July 31, 1954, expenditures and revenue for the fiscal year April 1, 1953 to March 31, 1954, and summarizes the major activities of the Board and its branches for the 1954 calendar year.

Summaries are given in the first and main portion of this report, and additional information submitted by various branches and supported by tables of data is presented in Appendices A to M which follow the main section.

General

The 1953-54 crop year began with a carryover of 645 million bushels of wheat, oats, barley, rye and flax at August 1, 1953. To this was added a harvest estimated by the Dominion Bureau of Statistics at 1,322 million bushels, making a total available supply of 1,967 million bushels of the five principal grains for disposition. Comparable figures for the previous crop year show a carryover of 416 and a record production of 1,483 to make a total supply of 1,899 million bushels.

Commercial disappearance of Canadian grain during 1953-54 amounted to 1,084 million bushels or 57 per cent of supply. Of this 438 million were exported and the remaining 646 million bushels were used for domestic needs including feed, seed and human consumption. These figures show a decline of 145 million bushels (25 per cent) in export from the previous record year, and 25 million (3·7 per cent) decline in domestic use. Resulting carryover at August 1, 1954 of the five principal grains on farms, in elevators and in transit was a record 883 million bushels going into the 1954-55 crop year. Wheat stocks alone totalled 590 million bushels.

Late seeding, a severe rust epidemic and inclement harvesting weather in the West made the 1954 harvest at 814 million bushels one of the lowest in several years. The record carryover referred to above together with this harvest makes a total supply of 1,697 million bushels of the five grains.

The sustained high volume of production and handling demanded a corresponding volume of work and services from the Board's officers and staffs to facilitate the movement of grain. Filled storage facilities created some problems but on the whole there was very little spoilage of grain resulting from this congestion.

The comparative table given below shows production, movement and disappearance of the five principal grains. For more detailed background information on production, disposition and carryover, data are given in the report of the Statistics Branch, Appendix H.

	1952-53	1953-54	1954
	million bushels		
Carryover into crop year.....	415.6	654.4	883.4
Production.....	1,483.2	1,321.7	813.4
Supply.....	1,898.8	1,967.1	1,697.4
Producers' Marketings.....	850.5	616.4	—
Total disappearance.....	1,253.4	1,083.6	—
Export.....	582.8	437.9	—
Domestic Use.....	670.6	645.7	—

Licensing and Bonding

At the end of the 1953-54 crop year, 5,530 licences to operate under the Canada Grain Act were in force representing a total storage capacity of 57 million bushels in country, terminal, mill and eastern elevators. This represents an increase of 17 licences and 23 million bushels capacity over the previous year.

Country elevator capacity at 327 million bushels showed an increase of 15 million bushels; in addition supplementary storage annexes to country elevators having a capacity of 4.8 million bushels were authorized, an increase of 1.5 million over last year. Terminal and mill elevator capacity at 154 million showed a 3 million bushel increase, and eastern elevator capacity was up by 4 million bushels to 89 million.

The Board has continued to collect from licensees the one per cent levy under the Prairie Farm Assistance Act, and collections of eight million dollars were made and remitted during the 1953-54 crop year. Further details of licences and bonds and collections under the P.F.A.A. are given in Appendix I to this report.

Assistant Commissioners

Effective January 15, 1954, Mr. Walter Spence Frazer was appointed Assistant Grain Commissioner for Manitoba. Assistant Commissioners A. C. McLean and M. M. MacKinnon have continued to serve in Saskatchewan and Alberta respectively.

Assistant Commissioners inspected 658 elevators in Manitoba, 588 in Saskatchewan and 1,153 in Alberta. Irregularities in the matter of equipment such as scales, sieves, sample boxes and lockers and the posting of licence and regulations, were drawn to the attention of the agents and where necessary to the attention of licensees. Tickets and receipts were checked to ensure that these were properly made out and that only the allowed shrinkage was deducted. In addition, several seed treating installations were checked to assure proper segregation of treated grain from elevator stocks.

Assistant Commissioners also inspected buildings such as coal sheds, flour storage sheds, etc., before the Board authorized use of these buildings for emergency wheat storage.

Any agents who had consistent or excessive overages on country elevator operations were interviewed with a view to determining the cause of the overages. If they had not been called to appear before the Board in this connection, they were warned of the action which would be taken in cases of continued accumulation of excessive overages.

Assistant Commissioners investigated a total of 91 complaints during 1953. This compares with 148 investigated during the previous year. Seven complaints originated in Manitoba, sixty-two in Saskatchewan, eight in Alberta and fourteen were carried over from the previous year.

In addition to complaints, a large number of inquiries respecting the operation of the car order book were dealt with, and where inequalities were found, solutions were worked out and situations corrected. The majority of car order book complaints originated in Saskatchewan.

After investigation of the complaints which related to grain handling at country elevators, shipments from country elevators, irregularities in car order book procedure and other operations of licensees under the Canada Grain Act, they were disposed of as follows:

	Manitoba	Saskat-chewan	Alberta	Total
No grounds for complaint.....	4	22	3	29
Settlement effected.....	2	15	2	19
Outside jurisdiction of Board.....	1	—	—	1
Licensee fined or penalty applied.....	—	18	2	20
Licensee warned.....	—	14	1	15
Complaint withdrawn.....	—	1	1	2
Not yet disposed of.....	—	3	2	5
Totals.....	7	73	11	91

Prosecutions

Twenty-five penalties for breaches of the Canada Grain Act and Board's Regulations amounting to \$1,730.00 were levied and collected as follows:

Number of Penalties	Contravention	Amount
1	Section 68 (2), Canada Grain Act.....	\$ 75.00
8	Section 109, Canada Grain Act.....	155.00
2	Section 110, Canada Grain Act.....	125.00
14	Board Regulation No. 18.....	1,375.00

Shortages and Overages—Country Elevators

Country elevator annual returns for the 1953-54 crop year, which were submitted to the Board as required by section 10 of Board's Regulation No. 17, have been examined and the results tabulated. Owing to the very congested storage conditions, only 1,087 out of 5,130 elevators were able to weigh over during the crop year.

Of these 1,087 country elevators, many reported shortage or overage positions on the basis of handlings for periods of two, three and even four years. The following table shows the number of weighed over elevators reporting shortages and the number reporting overages in different ranges. Data for 1952-53 are also given for comparison:

Elevators Reporting	1953-54	1952-53
Shortages.....	356	640
Neither overages nor shortages.....	6	19
Overages of less than .25%.....	420	893
Overages of .25% to .50%.....	195	351
Overages over .50%.....	110	115
Total elevators weighed over.....	1,087	2,018

Where the Board was of opinion that overages on public country elevator operations were excessive as revealed in 1952-53 and previous records, hearings were held during 1954 to examine operations of the offending agents. Fourteen hearings were held at five points in Manitoba and Saskatchewan, and 10 elevator agents with unsatisfactory records were summoned to appear before the Board to show why the Board should not refuse to license any country elevator at which the persons concerned acted as agents of licensees. In addition to these hearings, Commissioner Vallance and the Assistant Grain Commissioner M. M. MacKinnon, held interviews with eight elevator agents in Alberta in connection with their unsatisfactory records. Country elevator superintendent and management officials of companies concerned were ordered by the Board to be present at all hearings to give explanations concerning accumulation of excessive overages.

Car Order Book

Car order book procedure is established under sections 61 to 76 of the Canada Grain Act. Operation of this statutory procedure has been made difficult by reason of the necessity of the Canadian Wheat Board to move from country points specific kinds and grades of grain for export and domestic sales. The Transport Controller by an order of October 2, 1953, reissued on August 10, 1954, provided that applications for cars in the car order book would be passed over temporarily and not cancelled if the applicants could not ship grain due to Canadian Wheat Board restrictions; and that cars would be supplied in turn after prohibitions were removed.

Under provisions of subsection (2) of section 68 of the Canada Grain Act the Board authorized 1,827 cars out of turn to move seed and out-of-condition grain, and to move or reduce stocks in country elevators and annexes in danger of collapse. Following is a breakdown of cars authorized with figures for 1953 included for comparison:

Purpose	1954	1953
Grain out of condition	555	866
Elevators and annexes in danger of collapse.....	1,013	1,104
Elevators and annexes flooded.....	136	138
Seed grain.....	5	13
Grain fumigated for rusty grain beetle infestation.....	104	625
Others.....	14	55
Totals.....	1,827	2,801

On December 17, 1954, after consultation with the Canadian Wheat Board the Board issued authority to the railways under provisions of subsection (2) of section 68, to supply cars for shipment of damp grain under special Permit 100 in order to facilitate movement of damp grain from country points to dryin positions.

Regulations of the Board

The following amendments were made to Board Regulations during 1954:

Regulation No. 16—Effective January 28, 1954, to eliminate a ten-cent charge for additional copies of weight certificates on outward shipments in carlots. Published in the *Canada Gazette* of February 24, 1954, p. 96, SOR/54-32.

Effective March 1, 1954, to provide for a schedule of charges for casual weighing and inspection service at country elevators at points where inspection and weighing service are maintained; also to provide for recovery from licensee of overtime paid by the Board in connection with inspection and weighing service and to allow for certain exemptions. Published in the *Canada Gazette* of March 24, 1954, p. 194, SOR/54-78.

Regulation No. 18—Effective March 1, 1954, to clarify carloading procedure at country elevators. Published in the *Canada Gazette* of March 24, 1954, p. 194, SOR/54-78.

All Regulations in effect on August 1, 1954, were published in consolidated form in the *Canada Gazette* in accordance with requirements of section 19 of the Canada Grain Act. They appeared in the issue of August 25, 1954 (p. 1011 to 1061, SOR/54-348). The following revisions and amendments were made to seven of the Regulations effective from August 1, 1954.

Regulation No. 2—Section 17 was amended to require reporting of weekly instead of daily balance in store at eastern elevators in connection with registration and cancellation of eastern warehouse receipts and transfer receipts.

Regulation No. 18—Section 10 was amended to permit use of cleaning receipt forms other than forms specified in schedule to this regulation, subject to approval by the Board.

Section 19 was amended to place additional restrictions on treating of grain with fungicides at country elevators.

Regulation No. 20—Changes in numbering and in editorial form were made to make this regulation consistent with the form of other regulations.

Regulation No. 21—Section 6 was amended to specify deduction of allowances for shrinkage and invisible loss in percentage terms, and to provide alternative tables for deduction of these allowances either in pounds or in tenths of bushels. Shrinkage on damp grades of rye was reduced from $1\frac{1}{2}$ per cent to 1 per cent.

Regulation No. 22—Changes in numbering and form were made to make this regulation consistent with others. Allowance for invisible loss and shrinkage on grain delivered to terminal elevators in railway cars was converted to tenths of bushels, and invisible loss and shrinkage on grain received at terminals from wagons or trucks was set out in the same manner as in Regulation No. 21.

Regulation No. 24—Section 4 dealing with storage in transit of grain grown outside Canada was amended to require reporting of storage position only when change occurs instead of reporting daily.

Regulation No. 25—A new section 4 was added to allow variation in forms of tickets and receipts to facilitate deduction of shrinkage allowance prior to conversion of grain weight to bushels.

Inspection of Grain

Inspection of grain during 1953-54 revealed no severe or widespread degrading characteristics. However, the northern areas of the Prairie Provinces in 1953 harvested some low-grade, immature and frosted wheat, and crops in southern Manitoba and south-eastern Saskatchewan suffered some damage from race 15-B rust which lowered bushel weight of wheat and barley. The central areas of Saskatchewan and Manitoba produced above-average crops and Alberta was average except for hail damage in the west central portion. Harvest weather was good and only slightly over eight per cent of all grain graded into the tough and damp grades as against more than fourteen per cent in the 1952-53 crop year.

The volume of inspections was lower by 25 per cent for primary carlot inspections but was still above the average for the previous ten years. Inspections to vessels totalled 476 million bushels or 120 million bushels less than the previous crop year.

Grain Drying

In 1953-54 only 1 per cent of all grain graded damp and 8·2 per cent graded tough. Accordingly, drying was not as extensive as in the previous year. Only 35·8 million bushels were artificially and naturally dried as compared with 62·2 million bushels during the previous crop year. Of the 1953-54 total, 8·5 million were dried artificially and 27·3 million bushels were dried naturally. Details on drying by point and grain are given in Table H-11 in Appendix H.

Research

The Board's Research Laboratory has continued quality studies on grain crops sampled at different stages of marketing and handling. Usual assistance was given to the Grain Inspection Branch in evaluating new crops and data on standard and export standard samples were provided to the Western Committee on Grain Standards. The Laboratory also serves as scientific consultants to the Board in complaints and inquiries. During the year this Branch was required to develop a sensitive test to determine presence of mercury in grain to check and control possible entry into commercial channels of grain treated with fungicides.

Research on certain basic factors relating to quality of grain and its products has been carried on and the Laboratory collaborated with plant breeders by testing new grain varieties.

Four crop bulletins and two protein maps have been published and an annual report is in press to provide information to millers and overseas buyers, and to put on record quality data on grain. In addition, results of research were published in various scientific journals. List of laboratory publications are given in Appendix M and the work of this Branch is dealt with in greater detail in Appendix I.

Committees on Grain Standards

Committees on Grain Standards for the crop year 1954-55 were constituted by the Board in accordance with section 25 of the Canada Grain Act. Personnel of the Western and Eastern Committees is listed in Appendix B to this report.

The Western Committee was convened in Winnipeg on October 14, 1954, and again on November 18, 1954, to select and settle standard and standard export samples and to name and define commercial grades of grain in accordance with sections 27 and 29 of the Canada Grain Act. The Committee named and defined a new commercial grade Extra No. 2 Feed Barley to be established effective August 1, 1955. It also recommended that Schedule One to the Canada Grain Act be amended to restrict grade No. 3 Canada Western Amber Durum to Mindum or varieties equal to it in macaroni-making quality, and named and defined a new commercial grade Extra No. 4 Canada Western Amber Durum to be effective from August 1, 1955, subject to amendment of the Canada Grain Act. The Committee also recommended redefinitions for statutory grades of Soybeans as shown in Schedule One to the Act.

The Eastern Committee met in Toronto on August 20 and again on November 25, 1954, to select and settle standard samples of Eastern and United States grain. This Committee also recommended redefinitions for the statutory grades of Soybeans as shown in Schedule Two to the Canada Grain Act.

Complaints on Export Shipments

Twenty-nine complaints in respect to overseas shipments were received during the year and two unsettled cases were brought forward from the previous year. This compares with seventeen complaints on overseas shipments handled in 1953. After thorough investigations, disposition was as follows:

—	Quality	Shortage
No cause of reported discrepancy found.....	—	19
No grounds for complaint.....	8	—
Not yet disposed of.....	1	3
Totals.....	9	22

Weighing of Grain

All grain received at or shipped from licensed terminal elevators was weighed by the Board's weighing staff in accordance with sections 33 and 124 of the Canada Grain Act, and the same service was provided at licensed mill elevators on request. Officers of the Weighing Branch also inspected scales and equipment, and investigated outturn shortages on vessel shipments. Details of the work of this Branch are given in Appendix G.

Weighovers of Stocks—Terminal and Eastern Elevators

In accordance with sections 139 and 140 of the Canada Grain Act, 34 terminal and 19 eastern elevators were weighed over during the 1953-54 crop year. Due to large stocks in store, the Board deferred weighovers into the next crop year at 13 terminal and 6 eastern elevators under authority of section 141 of the Canada Grain Act. One elevator at change of ownership was sounded by the Board's weighing officials and found empty.

Results of annual weighovers are given in Tables A-1 to A-5 of Appendix A. These weighovers did not disclose any excessive overages as defined by the above sections of the Act.

Terminal and Eastern Complaints

In 1954 the Board received seventeen complaints in connection with handling of grain at terminal elevators and shipment to Eastern Canada. All related to outturn shortages. In addition, six uncompleted cases were brought forward from the previous year. This compares with thirty-two complaints handled in 1953. Disposition was as follows:

—	Quality	Shortage	General
No cause of reported discrepancy found.....	—	11	1
Settlement effected.....	1	6	—
Not yet disposed of.....	—	4	—
Totals.....	1	21	1

Statistics

Statistics relating to Canadian grain movement collected and compiled by the Board's Statistics Branch and other work of this Branch, are presented in Appendix H of this report. A list of statistical releases and publications are given in Appendix M.

Information Program

Continuing the program started in 1953, the exhibit outlining the functions of the Board was displayed at exhibitions and summer fairs at Brandon, Edmonton, Vermilion, Vegreville, North Battleford and Lethbridge for a total of 21 days. Judging by the interest shown and comments received, this project appears to have real value in placing before farmers and others, information about the handling of grain under provisions of the Canada Grain Act. Widely distribution of the booklet *The Farmer and the Country Elevator* was made at these fairs and exhibitions, and distribution has continued throughout the year.

A print of the Board's film "Grain Handling in Canada" which was referred to in last year's annual report, was received in September. The reaction from initial showings indicates that producer audiences find the film informative in outlining the various stages in the handling of grain from producer to export channels. The film has not yet been released for general distribution as the Board requested the National Film Board to make some minor changes. The film will be available early in 1955.

During the early harvest period of 1954 heavy rains and restricted delivery created serious problems for farmers. The Board's Chief Chemist was requested to prepare and give a series of five-minute radio talks advising farmers of problems of tough and damp grain. Tape recordings were broadcast over eleven stations in Western Canada to inform farmers on harvesting and storing damp grain.

Storage of Foreign Grain for Reshipment from Canada

Under authority of subsection (29) of section 15 of the Canada Grain Act and Board's Regulation No. 24, the Board continued to restrict entry of foreign grain into Canada for re-export to give priority to the storage of Canadian grain. During the 1954 calendar year in conjunction with the Transport Controller, sixty-seven permits were issued to move 5,891,000 bushels of United States flaxseed, and 10,582,000 bushels of United States corn through eastern elevators.

Stocks of foreign grain at Vancouver carried over into 1954 comprising 150,000 bushels of wheat and barley, were shipped out and no further foreign grain was received at the West Coast during 1954.

Lake Freight Rates

No changes were made during 1954 in the maximum rates for carrying grain by lake and river navigation. The maximum rates authorized by the Board in Order No. 19 of February 5, 1951, under authority of the Inland Water Freight Rates Act remained in effect during 1954. A schedule of these rates has been republished as Order No. 20 dated September 28, 1954, which appears in the *Canada Gazette* of October 27, 1954, as SOR/54-468. Information on the 1954 average lake freight rates charged by carriers is given in Table H-10 Appendix H.

Transport Controller

Commissioner R. W. Milner continued to serve as Transport Controller on a part-time basis. During 1954 he handled most of the transport control work from Winnipeg and spent only a few intermittent weeks in Ottawa.

Canadian Government Elevators

Receipts of grain during 1953-54 at the Canadian Government Terminals Elevators operated by the Board at Moose Jaw, Saskatoon, Edmonton, Calgary, Lethbridge and Prince Rupert, totalled only 13.9 million bushels as compared

with 27.5 million for the previous crop year. From an operating standpoint, however, the 1953-54 crop year was very satisfactory as stocks in store at July 31, 1954, were 15.7 million bushels or 86 per cent of elevator capacity. The stocks in store at the beginning of the crop year were 14.5 million bushels.

Canadian Government Elevators showed a surplus of revenue over operating expenses in the amount of \$779,074 for the fiscal year ended March 31, 1954, as compared with a surplus of \$443,672 in the previous fiscal year. More detailed information respecting handlings and the operation of the Canadian Government Elevators is given in Appendix J to this report.

Organization and Personnel

On December 31, 1954, the Board's staff numbered 897 which was 42 less than on December 31, 1953. Of this total 838 were in the continuing establishment and 59 were casual employees whose numbers vary with work requirements.

The staff of the Canadian Government Elevators at Winnipeg, Saskatoon, Moose Jaw, Calgary, Edmonton, Lethbridge and Prince Rupert totalled 198, of which 39 were casual employees. This is a decrease of 21 from 1953.

Progress has been made during the year on the program initiated in 1953 for revising the organization of the Board's branches. Certain employees have been regrouped with the object of improving co-ordination of the work of the different branches. Use of business machines was extended to facilitate improved procedures.

The following table shows location of the Board's staff broken down by groups:

Point	Ad- minis- trative and Cler- ical	Inspec- tors and Assist- ants	Sam- plers	Weigh- men and Assist- ants	Track- men	At December 31, 1954		At December 31, 1953	
						Total	Casuals†	Total	Casuals†
Montreal.....	8	9	4	1	—	22	—	23	—
Chatham.....	2	3	8	—	—	13	4	10	2
Toronto.....	—	1	1	—	—	2	—	3	1
Fort William.....	30	99	71	87	53	340	5	364	61
Keeewatin.....	—	—	2	2	—	4	—	4	—
Winnipeg.....	{ 106 }	35	105	10	—	285	10	297	25
Saskatoon.....	2	4	5	4	2	17	1	18	1
Moose Jaw.....	—	4	5	3	1	13	—	14	2
Medicine Hat.....	—	2	1	3	—	6	—	6	—
Lethbridge.....	—	1	2	1	1	5	1	5	2
Edmonton.....	6	8	24	3	1	42	10	41	9
Calgary.....	7	6	19	6	5	43	5	41	4
Vancouver.....	16	22	14	29	15	96	19	103	27
Prince Rupert.....	—	1	2	—	2	5	4	5	4
Victoria.....	—	2	—	2	—	4	—	5	1
Totals.....	{ 177 }	197	263	151	80	897	59	939	139

† Casuals included in totals.

* Chemists and Technicians.

Expenditure and Revenue

Total expenditure and revenue of the Board, exclusive of the Canada Government Elevators, for the fiscal year 1953-54 compared with 1952-53 were as follows:

	1953-54	1952-53
Revenue	\$3,318,179	\$3,718,088
Expenditure	3,506,094	3,367,341
	<hr/>	<hr/>
	*187,915	†350,747

* Deficit. † Surplus.

Expenditure for the nine months of the 1954-55 fiscal year to December 3, 1954, totalled \$2,667,821 as against \$2,618,472 for a comparable period during 1953-54. Cash revenue for the same 9-month period amounted to \$1,900,500 as compared with \$2,581,068 for this period of the previous year.

Respectfully submitted,

D. G. MCKENZIE,
Chief Commissioner

J. VALLANCE,
Commissioner

R. W. MILNER,
Commissioner

K. HLYNKA,
Secretary

APPENDIX A—WEIGHOVER STATEMENTS

Table A-1.—Oversages and Shortages Dislosed by Weighovers of Grain Stored in PUBLIC TERMINAL Elevators, Crop Year 1953-54

No. 1.—The figures shown in this table represent differences between outstanding registered warehouse receipts and quantities of grain disclosed at weigh-
over.

Date of Weighover	Licensee	Wheat		Oats		Barley		Rye		Flaxseed		Mixed Feed Oats		Rapeseed		Mixed, and Sample Grain	
		Over-age	Short-age	Over-age	Short-age	Over-age	Short-age	Over-age	Short-age	Over-age	Short-age	Over-age	Short-age	Over-age	Short-age	Over-age	Short-age
CANADIAN GOVERNMENT ELEVATORS	Calgary.....	—	3,742.8	—	—	39.7	—	—	—	—	—	—	—	—	—	—	—
	Lethbridge.....	3,652.6	—	—	—	775.8	—	—	—	11.7	—	5,952.1	—	—	—	—	—
	Moose Jaw.....	—	8,392.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	Saskatoon.....	—	484.6	—	—	—	—	—	—	—	—	0.9	13,280	—	—	—	—
	Prince Rupert.....	2,843.6	—	—	—	3,805.5	—	—	—	—	—	4,839.3	—	—	—	2,104,490	—
	Totals.	6,496.2	12,620.3	—	—	4,631.0	—	—	—	11.7	—	10,791.4	0.9	13,280	—	2,104,490	—
	Net Totals—	—	—	—	—	—	—	—	—	—	—	4,621.0	—	11.7	10,790.5	13,280	—
	Oversales.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	Shortages.....	6,124.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2,104,490

Table A-2.—Excesses and Deficiencies in Specified Grades of Wheat Disclosed by Weighovers of Grain Stored in PUBLIC TERMINAL Elevators, Crop Year 1953-54

Date of Weighover	Licensee	Excess						Deficiency					
		1 Hard	1 Northern	2 Northern	3 Northern	1 C.W. Garnet	2 C.W. Garnet	1 Hard	1 Northern	2 Northern	3 Northern	1 C.W. Garnet	2 C.W. Garnet
		bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.
Aug. 17-31, 1953.....	CANADIAN GOVERNMENT ELEVATORS.....	—	1,300.2	—	—	—	—	—	—	—	—	4,079.4	3,734.2
Aug. 10-15, 1953.....	Calgary.....	—	97.6	—	5,536.5	—	—	—	—	—	—	4,404.2	—
Feb. 8-Mar. 12, 1954..	Lethbridge.....	—	—	—	—	—	—	—	—	—	—	8,306.1	1,412.6
Mar. 13-April 14, 1954.	Moose Jaw.....	—	—	—	—	—	—	—	—	—	—	15.5	3,902.6
Jan. 14-20, 1954.....	Saskatoon.....	—	14.1	—	—	—	—	—	—	—	—	—	—
	Prince Rupert.....	—	—	—	—	—	—	—	—	—	—	—	—

Note: Excess—Grain not delivered to elevators or grain companies at specified times; deficiency—grain delivered to elevators or grain companies before specified times.

BOARD OF GRAIN COMMISSIONERS

21

Table A-3.—Excesses and Deficiencies in Specified Grades of Wheat Disclosed by Weighovers of Grain Stored in SEMI-PUBLIC TERMINAL Elevators, Crop Year 1953-54

Date of Weighover	Licensee	Excess	DEFICIENCY											
			1 Hard			2 Northern			3 Northern			1 C.W. Garnet		
			bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.
July 13-16, 1954	Fort William-Port Arthur Canadian Consolidated Grain Co. Ltd.	-	—	5.4	—	25,144.8	—	—	—	—	—	211.5	32,776.9	—
Dec. 9-14, 1953	"Eunire," "Thunder Bay"	—	—	—	—	—	—	—	—	—	—	4,512.1	2,539.3	19,783.7
Dec. 7-11, 1953	Eastern Terminal Elevator Co. Ltd.	—	—	—	—	—	—	—	—	—	—	6,823.0	29,938.0	—
June 21-24, 1954	Fort William Elevator Co. Ltd.—Elevator "F"	—	—	—	—	—	—	—	—	—	—	72.7	3,006.5	16,956.1
Dec. 1-4, 1953	Lakehead Terminals Limited	—	—	—	—	—	—	—	—	—	—	115.3	4,254.0	1,797.6
Nov. 18-24, 1953	Manitoba Pool Elevators—Elevator No. 1	—	—	—	—	—	—	—	—	—	—	373.3	7,048.4	2,544.6
Nov. 16-18, 1953	Elevator No. 2	—	—	—	—	—	—	—	—	—	—	214.5	4,881.6	1,204.7
Dec. 11-16, 1953	Elevator No. 3	—	—	—	—	—	—	—	—	—	—	13.4	1,670.9	7,982.1
Dec. 16-23, 1953	Elevator No. 6	—	—	—	—	—	—	—	—	—	—	3.9	7,350.7	24,772.6
Jan. 14-20, 1954	Elevator No. 9	—	—	—	—	—	—	—	—	—	—	1.957.1	17,203.4	5,828.8
Dec. 14-17, 1953	McCabe Grain Co. Ltd.	—	—	—	—	—	—	—	—	—	—	—	10,941.5	1,820.9
Dec. 14-22, 1953	National Grain Co. Ltd.	—	878.1	—	—	—	—	—	1,305.1	—	—	—	6,212.7	—
Dec. 1-8, 1953	Ogilvie Flour Mills Co. Ltd.	—	91.4	—	—	—	—	—	—	—	—	—	8,844.9	231.9
Aug. 17-24, 1953	N. M. Paterson & Sons Ltd.	—	—	—	2,382.4	—	—	—	—	—	—	1,034.9	17,683.2	—
Aug. 24-28, 1953	Saskatchewan Wheat Pool—Elevator No. 5	—	—	—	—	—	—	—	—	30.7	2,043.1	14,818.8	8,235.3	3,574.3
Dec. 28/53-Jan. 13/54	Elevator No. 7	—	—	—	—	—	—	—	—	—	51,041.5	51,041.5	28,969.0	—
Dec. 7-18, 1953	Searle Grain Co. Ltd.	—	—	—	—	—	—	—	1,487.0	8.9	4,169.0	62,513.0	37,794.2	—
July 5-10, 1954	United Grain Growers Ltd.	—	—	—	—	—	—	—	—	—	25,772.3	20,686.9	34,963.8	20.9
VANCOUVER-NEW WESTMINSTER														
July 5-13, 1954	Alberta Wheat Pool	—	—	—	—	—	—	—	4,935.5	—	—	3,929.9	23,231.7	26,038.5
Apr. 28-May 3, 1954	Kerr Gifford & Co. Inc. (N.H.B. No. 1)	—	—	—	—	—	—	—	—	—	—	456.4	2,621.0	3,246.4
Feb. 15-19, 1954	Midland Pacific Terminal Ltd.	—	216.6	—	—	—	—	—	4.7	—	—	—	9,822.7	5,347.9
June 15-22, 1954	Pacific Elevators Limited	—	—	—	—	—	—	—	—	—	—	5,902.7	42,129.5	73,002.6
March 29-April 2, 1954	James Richardson & Sons Ltd. (N.H.B. No. 4)	—	—	—	—	—	—	—	75.9	—	—	94.8	2,857.8	1,288.8

Table A-3.—Excesses and Deficiencies in Specified Grades of Wheat Disclosed by Weighovers of Grain Stored in SEMI-PUBLIC TERMINAL Elevators, Crop Year 1953-54—Concluded

Table A-4.—Excesses and Deficiencies in Specified Grades of Wheat Disclosed by Weighovers of Grain Stored in PRIVATE TERMINAL Elevators, Crop Year 1953-54.

Date of Weighover	Licensee	Grade of Wheat	Excess	Deficiency
Aug. 6, 1953.....	Canada Malting Co. Ltd. No. 1, Calgary.	1 Hard..... 1 Northern..... 2 Northern..... 3 Northern..... 1 C.W. Garnet..... 2 C.W. Garnet.....	— — — — — —	— — — 15.0 — —
July 30, 1954.....	Canada Malting Co. Ltd.) No. 3, Calgary.			
Sept. 17, 1953.....	Canada Malting Co. Ltd. Port Arthur.	No wheat of the above grades was handled or in store in these elevators.		

Table A-5.—Overages and Shortages Disclosed by Weighovers of Canada Western and Foreign Grain Stored in EASTERN ELEVATORS, Crop Year 1953-54

Date of Weighover	Licensee	Kind of Grain	Overage	Shortage
1954			bu.	bu.
March 6-16	COLLINGWOOD— Collingwood Terminals Limited.	Canada Western Wheat..... Canada Western Oats..... Canada Western Barley..... Canada Western Rye..... Canada Western Screenings..... Origin Unknown Screenings..... U.S.A. Soybeans.....	— — — — — — —	6,509.6 1,980.1 219.6 33.6 *1,030 *170 156.2
March 11- April 2	GODERICH Goderich Elevator & Transit Co. Ltd.	Canada Western Wheat..... Canada Western Oats..... Canada Western Barley..... Canada Western Rye..... Canada Western Flaxseed..... Canada Western Sample Grain..... Canada Western Screenings..... U.S.A. Corn.....	— — — — — — — —	5,027.6 7,093.3 2,645.3 7.6 59.9 *29,958 *38,680 49.9
Feb. 9-26	HUMBERSTONE Robin Hood Flour Mills Limited.	Canada Western Wheat..... Canada Western Oats..... Canada Western Barley..... Canada Western Rye.....	— — — —	5,640.1 526.1 1,568.2 47.4
March 25- April 6	KINGSTON Canada Steamship Lines Limited.	Canada Western Wheat..... Canada Western Oats..... Canada Western Corn..... Canada Western Rye..... Canada Western Flaxseed..... Canada Western Buckwheat..... Canada Western Sample Grain..... U.S.A. Corn.....	— — — — — — — —	10,484.5 559.3 6,028.3 366.4 1,867.6 83.7 *1,160 166.9
August 8-27 1953	MIDLAND Canada Steamship Lines Limited.	Canada Western Wheat..... Canada Western Oats..... Canada Western Barley.....	— — —	5,953.2 67.4 653.1
March 8- April 2	Midland Simcoe Elevator Co. Ltd.	Canada Western Wheat..... Canada Western Oats..... Canada Western Barley.....	— — —	4,556.7 2,379.5 162.6
March 17-26	Renown Investments Ltd.....	Canada Western Wheat..... Canada Western Oats..... Canada Western Barley.....	— — —	3,825.4 468.6 59.5

Table A-5.—Overages and Shortages Disclosed by Weighovers of Canada Western and Foreign Grain Stored in EASTERN ELEVATORS, Crop Year 1953-54—(Continued)

Date of Weighover	Licensee	Kind of Grain	Overage	Shortage
1954			bu.	bu.
Feb. 3- March 4	OWEN SOUND Great Lakes Elevator Co. Limited	Canada Western Wheat..... Canada Western Oats..... Canada Western Barley..... Canada Western Sample Grain.....	— — — —	11,736 5,418 1,471 *68,62
Feb. 1-8	PORT COLBORNE Maple Leaf Milling Co. Limited	Canada Western Wheat..... Canada Western Oats..... Canada Western Barley..... Canada Western Rye.....	— — — —	9,368 633 923 95
April 5-14	National Harbours Board.....	Canada Western Wheat..... Canada Western Oats..... Canada Western Barley..... Canada Western Rye..... Canada Western Flaxseed..... U.S.A. Corn.....	— — — — — —	15,625 1,263 22,103 429 237 494
Feb. 1-23	PRESCOTT National Harbours Board	Canada Western Wheat..... Canada Western Oats..... Canada Western Barley..... Canada Western Rye..... Canada Western Sample Grain..... U.S.A. Corn.....	— — — — — —	2,879 1,451 3,724 381 *5 3,780
March 15-26	TORONTO Toronto Elevators Ltd.....	Canada Western Wheat..... Canada Western Oats..... Canada Western Barley..... Canada Western Rye..... Canada Western Flaxseed..... Canada Western Mixed Grain..... Canada Western Sample Grain..... Canada Western Screenings..... U.S.A. Corn..... U.S.A. Soybeans.....	— — — — — — — — — —	1,616 3,960 1,855 133 116 *1,88 *3,88 *13,88 113 222
March 1-9	WALKERVILLE Hiram Walker & Sons Grain Corp. Ltd.	Canada Western Wheat..... Canada Western Oats..... Canada Western Barley..... Canada Western Rye..... Origin Unknown Screenings..... U.S.A. Corn..... U.S.A. Screenings.....	— — — — — — —	1,080 366 — 64.5 622.7 *51.05 775 *1
Feb. 19- March 24	MONTREAL National Harbours Board.....	Canada Western Wheat..... Canada Western Oats..... Canada Western Barley..... Canada Western Rye..... Canada Western Flaxseed..... Canada Western Buckwheat..... Canada Western Peas..... Canada Western Mixed Grain..... Canada Western Sample Grain..... Canada Western Screenings..... U.S.A. Corn.....	— — — — — 361.9 — *37,160 — — —	34,248 577 37,510 3,508 1,471 — 84 *91,13 *21,00 2,785
Feb. 1-18	QUEBEC National Harbours Board	Canada Western Wheat..... Canada Western Oats..... Canada Western Barley..... Canada Western Flaxseed..... Canada Western Sample Grain..... Canada Western Screenings..... U.S.A. Corn.....	— — — — — — —	15,093 1,925 1,573 25 *70 *5,90 67

Table A-5.—Overages and Shortages Disclosed by Weighovers of Canada Western and Foreign Grain Stored in EASTERN ELEVATORS, Crop Year 1953-54—(Concluded)

Date of Weighover	Licensee	Kind of Grain	Overage	Shortage
1954			bu.	bu.
June 28- July 9	HALIFAX National Harbours Board.....	Canada Western Wheat..... Canada Western Oats..... Canada Western Barley..... Canada Western Flaxseed.....	— — — —	10,641.7 27.5 828.3 96.6
April 15	St. JOHN Canadian National Railways Co.	Canada Western Wheat.....	—	57.1
April 5-8	W. St. JOHN Canadian Pacific Railway Co. Elevator "B"	Canada Western Wheat..... Canada Western Barley..... Canada Western Peas.....	— — —	844.1 202.8 21.6
April 8-14	Canadian Pacific Railway Co. Elevator "H"	Canada Western Wheat..... Canada Western Oats..... Canada Western Barley..... Canada Western Flaxseed..... Canada Western Buckwheat.....	— — — — —	2,825.4 14.6 883.7 730.6 53.1

* Lb.

APPENDIX B

Committee on Western Grain Standards, 1954

D. G. McKenzie, Chief Commissioner, Board of Grain Commissioners
 J. Vallance, Commissioner, Board of Grain Commissioners
 R. W. Milner, Commissioner, Board of Grain Commissioners
 A. F. Dollery, Chief Grain Inspector, Board of Grain Commissioners
 Dr. J. A. Anderson, Chief Chemist, Grain Research Laboratory
 J. Forsyth, Chairman, Grain Appeal Tribunal, Winnipeg
 P. J. Marples, Chairman, Grain Appeal Tribunal, Calgary
 C. R. Manahan, Chairman, Grain Appeal Tribunal, Edmonton
 Dr. C. H. Goulden, Dominion Cerealist
 W. A. Hastings, representing the millers of wheat flour

George Bennett.....)	
W. H. Fairfield.....	}	Representing grain growers in Alberta
Uri Powell.....	}	
B. S. Plumer.....	}	
J. H. Harrison.....	}	
A. P. Gleave.....	}	
J. Wellbelove.....	}	Representing grain growers in Saskatchewan
L. L. Gray.....	}	
N. W. Strelloff.....	}	
W. J. Parker.....	}	
R. Barrett.....	}	Representing grain growers in Manitoba
Ray Mitchell.....	}	
G. Constable, representing grain growers in British Columbia		
J. E. Blakeman, representing Plant Products Division, Department of Agriculture		

Committee on Eastern Grain Standards, 1954

D. G. McKenzie, Chief Commissioner, Board of Grain Commissioners
 J. Vallance, Commissioner, Board of Grain Commissioners
 R. W. Milner, Commissioner, Board of Grain Commissioners
 A. F. Dollery, Chief Grain Inspector, Board of Grain Commissioners
 R. H. Read, representing Montreal Board of Trade
 E. D. Sullivan, representing Toronto Board of Trade
 C. Gordon McAuley, representing exporters of grain

F. H. Dunsford.....	}	Representing millers of wheat in the Eastern Division
H. Norman Davis.....	}	
Hugh Bailey.....	}	Representing grain growers in Ontario
J. E. Nephew.....	}	
G. C. Nichols, representing growers of corn		
E. B. Paterson, Additional		
John W. Ham, Additional		

APPENDIX C

Grain Appeal Tribunals

Winnipeg

J. Forsyth
 (Chairman)
 Grant Hammond
 Wm. E. McLeod
 A. F. Moore
 James Gregory
 R. C. Sproule
 J. F. Lazenby
 D. K. Mills
 G. I. Rocan
 E. Attree
 (Secretary)

Calgary

P. J. Marples
 (Chairman)
 T. F. Allison
 J. Tranter
 W. M. Pringle
 W. G. McLeod
 E. J. Munson
 G. C. Arbuthnott
 A. Watson
 G. R. Deeton

Edmonton

C. R. Manahan
 (Chairman)
 C. C. Young
 M. G. Wood
 J. R. MacRae
 T. Stickney
 D. G. MacKeracher
 H. A. Haggarty
 C. E. Sage
 Ross Saunders
 D. F. Marlett
 (Secretary)

Toronto

John W. Ham
 C. H. Coatsworth
 R. C. Pratt
 C. W. Heimbecker
 W. A. Robertson
 E. D. Sullivan
 K. F. Wadsworth
 J. C. Noseworthy
 (Secretary)

Montreal

P. J. Smith
 (Chairman)
 A. W. Brown
 T. B. Earle
 J. A. Byrne
 J. M. Vittie
 G. D. Robinson
 Mrs. Muriel B. Hunter
 (Secretary)

For information on Appeals of Carlot Inspections refer to Appendix F,
 Table F-7.

APPENDIX D

Licence and Bonding Branch

C. F. SPITTLE, *Licensing Officer*

During 1953-54 the Licence and Bonding Branch issued 5,562 licences to 120 firms and individuals to operate under the Canada Grain Act, or 36 more than in the previous crop year. In addition, country elevator licensees were authorized to use 145 supplementary storage annexes, comprising flour sheds, coal sheds, skating rinks and other buildings of substantial construction suited to emergency grain storage.

On July 31, 1954, with 5,474 elevator licences in force and 139 buildings authorized for supplementary storage, the total licensed storage capacity was 569,212,170 bushels in elevators, and 4,763,638 bushels in supplementary storage annexes to country elevators. In addition, 56 Track Buyers', Commission Merchants' and Grain Dealers' licences were also in force. The following table gives a comparative statement of numbers and classes of licences in force and storage capacity:

Kind of Licence	Licences in force July 31		Licensed storage capacity July 31	
	1954	1953	1954	1953
Country Elevators.....	5,359	5,340	326,698,550	311,818,950
Supplementary Annexes to Country Elevators	*	*	4,763,638	3,288,910
Terminals and Mill Elevators.....	86	87	153,583,820	151,036,410
Eastern Elevators.....	29	29	88,929,800	84,929,800
Track Buyers, Commission Merchants and Grain Dealers.....	56	57	†	†
Totals.....	5,530	5,513	573,975,808	551,074,070

* 139 buildings at July 31, 1954, and 75 buildings at July 31, 1953.

† These licences do not cover grain storage facilities.

During the crop year fourteen licences were cancelled for elevators which were converted to permanent annexes, and seven were cancelled for five elevators burnt down and two elevators demolished. Four other elevator licences and supplementary storage authorities and one grain dealer's licence were also cancelled for miscellaneous reasons.

Seventy-two country elevator licences were suspended by the Board for varying periods during rehabilitation and reconstruction of buildings. Sixty-four of these were subsequently reinstated after the structures had been satisfactorily repaired or reconstructed, and eight were under suspension at July 31, 1954.

Guarantee bonds in the amount of \$29,613,136.50 executed by sixteen approved surety companies were deposited with the Board as security under section 79 of the Canada Grain Act to cover operations of licensees during 1953-54. Five licensees deposited negotiable Government bonds with a par value of \$41,000 in lieu of furnishing the usual form of surety bonds.

At December 1, 1954, at which date essentially all licences were issued for the 1954-55 crop year, there were 5,474 licences in force. In addition, 147 buildings other than elevators were authorized for supplementary storage. The total licensed storage capacity as at December 1, 1954, was 575,598,860 bushels in elevators and 5,369,950 bushels in supplementary annexes, or a total increase of 19,463,602 bushels since December 1, 1953. Further details of number and kind of licences and storage capacity for the last five years (1950-1954) are given in Table D-1 of this Appendix. Comparative figures given at five-year intervals since 1890 are presented on page 18 of the Board's Annual Report for 1951.

Additional information on licensees, elevators, licensed storage capacities and other data on loading platforms, track buyers', commission merchants' and grain dealers licences, etc., is contained in a book entitled *Grain Elevators in Canada** compiled by the Board and published by the Queen's Printer.

* See list of publications in Appendix M.

Collection of One Per Cent Levy

The collection during the crop year 1953-54 of the one per cent levy made by this office under provisions of the Prairie Farm Assistance Act is recorded at \$7,987,031.77, a decrease of \$2,887,280.22 from collections during the previous crop year. Detailed information is recorded in Table D-2 of this Appendix.

Table D-1.—Number and Kind of Licences Issued and Licensed Storage Capacity, as at December 1st Each Year for the Past Five Years

Kind of Licence	1954	1953	1952	1951	1950
NUMBER OF LICENCES					
Public Country Elevator.....	5,352	5,326	5,341	5,354	5,309
Private Country Elevator.....	10	10	10	10	9
Mill Elevator.....	36	40	38	38	37
Public Terminal Elevator.....	6	6	6	6	6
Semi-Public Terminal Elevator.....	34	35	36	35	34
Private Terminal Elevator.....	7	6	7	7	8
Eastern Elevator.....	29	29	29	29	29
Track Buyer.....	21	21	21	22	25
Commission Merchant.....	25	26	27	28	32
Grain Dealer.....	8	9	9	11	12
Totals.....	5,528	5,508	5,524	5,540	5,501
LICENSED CAPACITY					
thousands of bushels					
Public Country Elevator.....	332,454	318,224	306,484	290,504	278,416
Special Annexes.....	5,369	4,411	1,579	627	—
Private Country Elevator.....	349	349	350	354	323
Mill Elevator.....	13,429	13,495	13,426	13,306	13,306
Public Terminal Elevator.....	18,350	18,350	18,350	18,350	18,350
Semi-Public Terminal Elevator.....	112,873	114,523	108,455	114,524	105,991
Private Terminal Elevator.....	7,295	7,220	7,295	7,295	7,330
Eastern Elevator.....	90,845	84,929	84,930	82,530	82,514
Totals.....	580,964	561,501	540,869	527,490	506,230

Table D-2.—Amounts Collected and Grain Purchased under the One Per Cent Levy, Prairie Farm Assistance Act, for period August 1, 1953 to July 31, 1954

Province	Wheat	Oats	Barley	Rye	Total
AMOUNTS COLLECTED					
	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
Manitoba.....	546,061 69	115,386 54	298,888 12	12,921 68	973,258 03
Saskatchewan.....	4,204,069 83	295,862 80	386,108 26	58,411 27	4,944,452 16
Alberta.....	1,545,368 64	172,701 94	324,686 84	26,406 06	2,069,163 48
Totals.....	6,295,500 16	583,951 28	1,009,683 22	97,739 01	7,986,873 67
Amount not allocated to provinces.....					158 10
Total collections August 1, 1953 to July 31, 1954.....					7,987,031 77
GRAIN PURCHASES					
	thousands of bushels				
Manitoba.....	36,242	17,886	30,570	1,622	86,320
Saskatchewan.....	283,150	49,513	41,104	7,484	381,251
Alberta.....	107,072	28,813	35,058	3,604	174,547
Totals.....	426,464	96,212	106,732	12,710	642,118

APPENDIX E

Registration Branch

C. J. BROWNSCOMBE, *Registrar*

Section 127 of the Canada Grain Act requires operators or managers of Public and Semi-Public terminal and eastern elevators to issue warehouse receipts for all grain taken into store. These warehouse receipts must be registered by the Board as to grades and quantities in accordance with Regulations 1 and 2 made under authority of the Act.

Table E-1 of this appendix presents the total quantities of grain received and shipped during the 1953-54 crop year at 41 Public and Semi-Public terminal elevators and 29 eastern elevators. Warehouse receipts were registered for grain taken into store and registered for cancellation when grain was shipped. In addition, "splits", consolidations and reissues of warehouse receipts were carried out daily to facilitate documentation in connection with the sale and handling of grain. Average figures for quantities registered and cancelled during the previous ten-crop-year period have been included in this table for comparison purposes.

While total handlings of all grains at elevators included in the Winnipeg registrations and at elevators in the interior group, were somewhat less than the figures for the ten-year average, a considerable increase in handlings of the Vancouver group of elevators set an all-time record for that area. Registrations of warehouse receipts for handlings in the Eastern Division reflect a general reduced movement of grain during 1953-54.

This Branch continues to maintain records of outstanding warehouse receipts that have been issued to cover stocks of grain contained in public, semi-public and eastern elevators and keeps records of grade handlings for each elevator. Statements of outstanding warehouse receipt totals by grade for all grain, also handling figures for the non-mixing grades of wheat, are issued for use in connection with the annual weighover of stocks of grain contained in both terminal and eastern elevators.

Charges for registration service are made at the rate of 4 cents per thousand bushels in the Western Division and 1 cent per thousand bushels in the Eastern Division. The reduced volume of handlings during the crop year under review has resulted in a decrease of fees collected in both Divisions. The amount was \$48,373.80 as compared to \$67,293.63 for the previous crop year. However, this is still above the ten-year average of \$44,751.22.

Table E-1.—Warehouse Receipt Registrations for Receipts and Shipments at Public and Semi-Public Terminal Elevators and Eastern Elevators, by Area and Grain, Crop Year 1953-54 and 10-year Average

Area	Grain	Crop Year 1953-54		10-Year Average, 1943-44 to 1952-53	
		Registered	Registered for Cancellation	Registered	Registered for Cancellation
—thousands of bushels—					
WESTERN DIVISION— Winnipeg, including Lakehead and Churchill	Wheat.....	173,829	150,774	228,733	231,768
	Oats.....	93,123	98,528	74,136	77,036
	Barley.....	84,251	84,575	56,894	56,928
	Flax.....	7,301	7,285	6,727	6,747
	Rye.....	11,245	16,223	8,875	8,623
	Mixed Grain.....	596	572	1,154	681
	Corn.....	9	9	60	69
	Other Grains.....	316	315	18	17
INTERIOR ELEVATORS— Calgary, Edmonton, Lethbridge, Moose Jaw and Saskatoon	Wheat.....	3,629	2,464	4,993	4,813
	Oats.....	225	300	759	761
	Barley.....	1,378	1,407	1,518	1,506
	Flax.....	196	196	362	348
	Rye.....	91	91	20	20
	Mixed Grain.....	2	1	11	24
	Corn.....	9	10	15	11
	Other Grains.....	110	111	211	192
VANCOUVER AND PRINCE RUPERT AREA	Wheat.....	114,547	114,903	59,923	60,978
	Oats.....	2,685	4,169	2,598	3,397
	Barley.....	17,917	17,840	3,947	3,885
	Flax.....	618	619	47	54
	Rye.....	45	47	34	34
	Mixed Grain.....	103	242	44	33
	Corn.....	—	—	287	286
	Other Grains.....	—	—	6	5
WESTERN DIVISION— All Points.....	Wheat.....	292,005	268,141	293,649	297,559
	Oats.....	96,033	102,997	77,493	81,194
	Barley.....	103,546	103,822	62,359	62,319
	Flax.....	8,115	8,100	7,136	7,149
	Rye.....	11,381	16,361	8,929	8,677
	Mixed Grain.....	701	815	1,209	738
	Corn.....	18	19	362	366
	Other Grains.....	426	426	235	214
Totals—All Grains.....		512,225	500,681	451,372	458,216
EASTERN DIVISION.....	Wheat.....	230,170	211,958	297,318	296,869
	Oats.....	41,659	42,955	44,292	44,045
	Barley.....	84,891	86,899	49,565	49,176
	Flax.....	16,553	15,930	6,488	6,485
	Rye.....	1,324	1,957	6,063	5,900
	Mixed Grain.....	651	647	398	376
	Sunflower Seed.....	—	—	11	11
	Corn.....	20,125	20,641	12,408	12,482
	Screenings.....	1,181	1,371	1,001	996
	Peas.....	210	208	17	24
	Beans.....	2,454	2,584	1,109	1,097
	Buckwheat.....	672	750	134	125
	Other Grains.....	—	—	175	182
Totals—All Grains.....		399,890	385,900	418,979	417,768

APPENDIX F

Inspection Branch

A. F. DOLLERY, *Chief Grain Inspector*

Under section 32 of the Canada Grain Act, the Grain Inspection Branch in the Western Division samples and grades all grain en route from country points to terminal and mill elevators or other destinations, at the primary inspection points of Winnipeg, Edmonton and Calgary. All grain is also sampled and graded on delivery to terminal or mill elevators at Saskatoon, Moose Jaw, Medicine Hat and Lethbridge if such grain has not passed through an inspection point. In addition, inspectors resample and check primary grading of all grain unloaded into terminal and mill elevators at the Lakehead, Churchill, Pacific Coast and interior points, as well as sampling and grading all grain shipped from terminal or mill elevators.

In the Eastern Division, sampling and grading service is provided on request at Chatham and Toronto for eastern grown grain. At Montreal, Quebec, Sorel, Three Rivers, St. John and Halifax, grain loaded into vessels for export is sampled and the grades are checked. Grades of all grain in store in all terminal and eastern elevators weighed over during that crop year are verified by Inspection Branch officials.

In the crop year ended July 31, 1954, inspections at primary points, while 25 per cent less than in the previous crop year, were still slightly higher than the yearly average for the past ten years. Storage congestion at the Lakehead and at transfer points in the Eastern Division was the cause of the reduced volume of inspections.

Seventy-seven per cent of the carlots of wheat inspected fell into No. 1, 2 or 3 Northern with No. 2 Northern at 47 per cent being the predominant grade; nine per cent of wheat graded tough and damp. Of the Durum wheat inspected, over 83 per cent graded 3 C.W. Amber Durum. Almost one-half of all the carlots of oats inspected graded No. 1 Feed with 21 per cent grading No. 3 C. W., 17 per cent grading Extra No. 1 Feed, and 2 per cent was tough and damp. The predominant grade in barley was No. 3 C.W. Six Row with 33 per cent of all carlots entering this grade, 24 per cent graded No. 1 Feed, 18 per cent No. 2 Feed, and 10 per cent graded tough and damp. Over one-half of all rye graded No. 3 C.W., with 21 per cent grading No. 2 C.W., and 10 per cent falling into the tough and damp grades. Flax graded high with almost 85 per cent going into No. 1 Canada Western.

Grain inspected on loading to vessels from terminal elevators at the Lakehead, Pacific Coast and Churchill, totalled 476 million bushels as compared with 596 million in the previous crop year. On export cargoes shipped from St. Lawrence and Atlantic ports grades were checked on grain amounting to 210 million bushels as compared with 372 million in the previous crop year.

In the Eastern Division well over 13,000 carlots of eastern grown grain were sampled and inspected; mostly at Chatham.

Rust damage in the southern portion of Manitoba and south-eastern Saskatchewan, lowered the grades of wheat and barley harvested in these areas in 1953. As a result, over 300 carlots of wheat graded into No. 4, 5 and 6 special grades on account of low bushel weight; and barley graded down to 3 C.W. and No. 1 Feed on account of thin, rusted and immature kernels. Grain from the central areas of Manitoba and Saskatchewan graded above average, while Alberta grown grain was of average grade, except for lower grades in the west central portion of the province resulting from hail damage. The northern areas of the three provinces produced some low-grade, immature and frosted wheat.

The following tables present detail information on grain inspections during the 1953-54 crop year.

Table F-1.—Primary Carlot Inspections, by Grains, from August 1, 1953 to July 31, 1954, compared with 1952-53 and 10-Year Average 1943-44 to 1952-53

	10-Year Average	1952-53	1953-54	10-Year Average	Percent of total	
					Carlots	
Wheat.....	203,502	275,771	194,747	68.6	68.5	63.9
Oats.....	41,320	40,649	41,319	13.9	10.1	13.6
Barley.....	39,895	70,850	55,027	13.5	17.6	18.0
Rye.....	5,202	8,221	6,394	1.8	2.0	2.1
Flaxseed.....	5,438	5,148	5,108	1.8	1.3	1.7
Mixed Grain.....	576	1,125	811	0.2	0.3	0.3
Corn.....	93	107	344	*	*	0.1
Buckwheat.....	16	93	174	*	*	*
Screenings.....	456	381	375	0.2	*	0.1
Sunflower Seed.....	23	3	1	*	*	*
Rapeseed.....	2	15	151	*	*	*
Peas.....	58	39	148	*	*	*
Soybeans.....	1	5	—	*	*	*
Totals.....	296,582	402,407	304,599	100.0	100.0	100.0

* Less than 0.05 %.

Table F-2.—Primary Carlot Inspections, by Points, from August 1, 1953 to July 31, 1954, compared with 1952-53 and 10-Year Average 1943-44 to 1952-53

	10-Year Average	1952-53	1953-54	10-Year Average	Percent of total	
					Carlots	
Winnipeg.....	223,425	292,997	197,787	75.3	72.8	65.0
Calgary.....	27,924	43,375	47,162	9.4	10.8	15.5
Edmonton.....	26,101	43,892	36,729	8.8	10.9	12.1
Moose Jaw.....	4,968	5,394	4,239	1.7	1.3	1.4
Saskatoon.....	6,330	7,297	8,615	2.1	1.8	2.8
Lethbridge.....	585	92	16	0.2	*	*
Medicine Hat.....	3,794	3,536	2,548	1.3	0.9	0.8
Vancouver.....	1,015	861	961	0.4	0.2	0.3
Churchill.....	†2,440	4,963	6,542	0.8	1.2	2.1
Totals.....	296,582	402,407	304,599	100.0	100.0	100.0

* Less than 0.05%.

† Cars inspected during last seven years only.

Table F-3.—Primary Carlot Inspections from August 1, 1953 to July 31, 1954, by Grain and Grades

Grade	Carlots	Percentage	Percentage of Total Wheat Inspections
WHEAT			
1 Manitoba Northern.....	15,637	8.3	—
2 Manitoba Northern.....	89,434	47.5	—
3 Manitoba Northern.....	39,822	21.2	—
4 Manitoba Northern.....	9,668	5.1	—
No. 4 Special.....	258	0.1	—
No. 5.....	9,358	5.0	—
No. 5 Special.....	63	*	—
No. 6.....	4,081	2.2	—
No. 6 Special.....	12	*	—
Feed.....	338	0.2	—
Sample.....	167	0.1	—
Smutty.....	233	0.1	—
Rejected.....	2,168	1.2	—
Tough.....	16,881	9.0	—
Damp.....	77	*	—
Others.....	25	*	—
Total Red Spring Wheat.....	188,222	100.0	96.7
1 Canada Western Garnet.....	1	0.1	—
2 Canada Western Garnet.....	129	8.5	—
3 Canada Western Garnet.....	755	49.5	—
Smutty Canada Western Garnet.....	1	0.1	—
Tough Canada Western Garnet.....	617	40.4	—
Damp Canada Western Garnet.....	2	0.1	—
Rejected Canada Western Garnet.....	20	1.3	—
Total Garnet Wheat.....	1,525	100.0	0.8
1 Canada Western Amber Durum.....	17	0.4	—
2 Canada Western Amber Durum.....	148	3.3	—
3 Canada Western Amber Durum.....	3,686	83.4	—
4 Canada Western Amber Durum.....	304	6.9	—
5 Canada Western Amber Durum.....	42	1.0	—
6 Canada Western Amber Durum.....	7	0.2	—
Smutty Canada Western Amber Durum.....	6	0.1	—
Rejected Canada Western Amber Durum.....	175	4.0	—
Tough Canada Western Amber Durum.....	23	0.5	—
Damp Canada Western Amber Durum.....	3	*	—
Sample Canada Western Amber Durum.....	9	0.2	—
Total Amber Durum Wheat.....	4,420	100.0	2.3
1 Canada Western Soft White Spring.....	23	10.5	—
2 Canada Western Soft White Spring.....	160	73.0	—
3 Canada Western Soft White Spring.....	26	11.9	—
Smutty Canada Western Soft White Spring.....	1	0.5	—
Rejected Canada Western Soft White Spring.....	1	0.5	—
Tough Canada Western Soft White Spring.....	4	1.8	—
Sample Canada Western Soft White Spring.....	4	1.8	—
Total Soft White Spring Wheat.....	219	100.0	0.1
1 Canada Western Mixed Wheat.....	2	1.3	—
2 Canada Western Mixed Wheat.....	3	1.9	—
3 Canada Western Mixed Wheat.....	33	21.1	—
4 Canada Western Mixed Wheat.....	7	4.5	—
5 Canada Western Mixed Wheat.....	85	54.5	—
6 Canada Western Mixed Wheat.....	2	1.3	—
Tough Canada Western Mixed Wheat.....	5	3.2	—
Rejected Canada Western Mixed Wheat.....	19	12.2	—
Total Mixed Wheat.....	156	100.0	—

**Table F-3.—Primary Carlot Inspections from August 1, 1953 to July 31, 1954
by Grain and Grades—continued**

Grade	Carlots	Percentage	Percentage of Total Wheat Inspections
WHEAT—concluded			
1 Alberta Red Winter.....	39	19·0	—
2 Alberta Winter.....	107	52·2	—
3 Alberta Winter.....	19	9·3	—
4 Alberta Winter.....	2	1·0	—
Tough Alberta Winter.....	19	9·3	—
Damp Alberta Winter.....	2	1·0	—
Smutty Alberta Winter.....	9	4·3	—
Rejected Alberta Winter.....	8	3·9	—
Total Alberta Winter Wheat.....	205	100·0	0·1
Total All Wheats.....	194,747	—	100·0
Grade	Carlots	Percentage	
OATS			
2 Canada Western.....	260	0·6	
Extra 3 Canada Western.....	1,638	3·9	
3 Canada Western.....	8,643	20·9	
Extra 1 Feed.....	7,222	17·5	
1 Feed.....	20,036	48·5	
2 Feed.....	2,097	5·1	
3 Feed.....	380	0·9	
Mixed Feed Oats.....	27	0·1	
Rejected Oats.....	119	0·3	
Sample Oats.....	107	0·3	
Tough.....	781	—	
Damp.....	8	1·9	*
Mixed Feed Oats Groats.....	1	*	*
Total Oats.....	41,319	100·0	
BARLEY			
1 Canada Western Six Row.....	1	*	
2 Canada Western Six Row.....	1,163	2·1	
3 Canada Western Six Row.....	18,327	33·3	
4 Canada Western Six Row.....	1,680	3·1	
1 Canada Western Two Row.....	2	*	
2 Canada Western Two Row.....	218	0·4	
3 Canada Western Two Row.....	1,967	3·6	
1 Feed.....	13,244	24·1	
2 Feed.....	9,836	17·9	
3 Feed.....	2,389	4·3	
Rejected.....	178	0·3	
Sample.....	87	0·2	
Tough.....	5,855	10·6	
Damp.....	56	*	
Condemned.....	1	0·1	
U.S.A. Barley.....	23	*	
Total Barley.....	55,027	100·0	
FLAXSEED			
1 Canada Western.....	4,328	84·7	
2 Canada Western.....	553	10·8	
3 Canada Western.....	115	2·3	
4 Canada Western.....	6	0·1	

Table F-3.—Primary Carlot Inspections from August 1, 1953 to July 31, 1954, by Grain and Grades
 (Continued)

Grade	Carlots	Percentage
FLAXSEED—Concluded		
Sample.....	33	0·7
Tough.....	70	1·4
Damp.....	1	*
Flax and Broken Grain.....	2	*
Total Flaxseed.....	5,108	100·0
RYE		
1 Canada Western.....	11	0·2
2 Canada Western.....	1,376	21·5
3 Canada Western.....	3,666	57·4
4 Canada Western.....	231	3·6
Ergoty Rye.....	413	6·5
Rejected.....	26	0·4
Sample.....	9	0·1
Tough.....	655	10·2
Damp.....	2	*
Others.....	5	0·1
Total Rye.....	6,394	100·0
MIXED GRAIN		
1 Canada Western.....	113	13·9
2 Canada Western.....	59	7·3
3 Canada Western.....	321	39·6
4 Canada Western.....	85	10·5
Smutty.....	1	0·1
Rejected.....	28	3·4
Sample.....	97	12·0
Tough.....	101	12·5
Damp.....	6	0·7
Total Mixed Grain.....	811	100·0
CORN		
1 Canada Western Yellow.....	15	4·4
2 Canada Western Yellow.....	50	14·5
3 Canada Western Yellow.....	35	10·2
4 Canada Western Yellow.....	17	4·9
5 Canada Western Yellow.....	4	1·2
Tough.....	28	8·1
Damp.....	2	0·6
Moist.....	2	0·6
Wet.....	1	0·3
U.S.A. Origin.....	190	55·2
Total Corn.....	344	100·0
Screenings.....	375	—
Buckwheat.....	174	—
Sunflower Seed.....	1	—
Peas.....	148	—
Rapeseed.....	151	—
Grand Total.....	304,599	—

* Less than 0·05%.

**Table F-4.—Carlots of Tough, Damp and Straight Grain Inspected at Primary Inspection Points
August 1, 1953 to July 31, 1954**

Grain	Tough	Damp	Tough and Damp	Straight	Total
Carlots					
Wheat.....	17,549	84	17,633	177,114	194,741
Oats.....	781	8	789	40,530	41,317
Barley.....	5,855	56	5,911	49,116	55,023
Rye.....	655	2	657	5,737	6,394
Flaxseed.....	70	1	71	5,037	5,108
Others.....	129	8	137	1,867	2,002
All Grains.....	25,039	159	25,198	279,461	304,550
PERCENTAGE OF TOTAL					
	%	%	%	%	%
Wheat.....	9.0	*	9.0	91.0	100.0
Oats.....	1.9	*	1.9	98.1	100.0
Barley.....	10.6	0.1	10.7	89.3	100.0
Rye.....	10.3	*	10.3	89.7	100.0
Flaxseed.....	1.4	*	1.4	98.6	100.0
Others.....	6.4	0.4	6.8	93.2	100.0
All Grains.....	8.2	0.1	8.3	91.7	100.0

* Less than 0.05%.

Table F-5.—Number of Two Pound Samples "Subject to Grade and Dockage" Inspected during Crop Year 1953-54 Compared with the Crop Year 1952-53

Point	1952-53	1953-54
	Number of Samples	
Winnipeg.....	12,525	6,790
Calgary.....	1,078	997
Edmonton.....	506	813
Moose Jaw.....	415	110
Saskatoon.....	884	856
Lethbridge.....	656	501
Medicine Hat.....	18	18
Totals.....	16,082	10,099

Table F-6.—Carlots Re-inspected from August 1, 1953 to July 31, 1954

Point	Inspected	Re-in-spected	Un-changed	Grades Raised	Grades Lowered	Dockage Raised	Dockage Lowered
Number of Carlots							
Winnipeg.....	197,787	15,460	8,781	3,478	417	495	2,289
Calgary.....	47,162	4,722	1,222	1,855	63	222	1,360
Edmonton.....	36,729	7,745	2,762	2,137	66	269	2,511
Saskatoon.....	8,615	316	286	30	—	—	—
Moose Jaw.....	4,239	177	158	19	—	—	—
Medicine Hat.....	2,548	12	2	8	2	—	—
Lethbridge.....	16	—	—	—	—	—	—
Vancouver.....	961	350	256	89	5	—	—
Churchill.....	6,542	—	—	—	—	—	—
Totals.....	304,599	28,782	13,467	7,616	553	986	6,160
Percentage of Re-inspections							
	%	%	%	%	%	%	%
Winnipeg.....	100	56.8	22.5	2.7	3.2	14.8	
Calgary.....	100	25.9	39.3	1.3	4.7	28.8	
Edmonton.....	100	35.7	27.6	0.8	3.5	32.4	
Saskatoon.....	100	90.5	9.5	—	—	—	
Moose Jaw.....	100	89.3	10.7	—	—	—	
Medicine Hat.....	100	16.7	66.6	16.7	—	—	
Lethbridge.....	—	—	—	—	—	—	
Vancouver.....	100	73.1	25.4	1.5	—	—	
Churchill.....	—	—	—	—	—	—	
Totals.....	100	46.8	26.5	1.9	3.4	21.4	
Percentage of Total Inspections							
	%	%	%	%	%	%	%
Winnipeg.....	100	7.8	4.4	1.8	0.2	0.3	1.1
Calgary.....	100	10.0	2.6	3.9	0.1	0.5	2.9
Edmonton.....	100	21.0	7.5	5.8	0.2	0.7	6.8
Saskatoon.....	100	3.7	3.3	0.4	—	—	—
Moose Jaw.....	100	4.2	3.7	0.5	—	—	—
Medicine Hat.....	100	0.5	0.1	0.3	0.1	—	—
Lethbridge.....	100	—	—	—	—	—	—
Vancouver.....	100	36.4	26.6	9.3	0.5	—	—
Churchill.....	100	—	—	—	—	—	—
Totals.....	100	9.4	4.4	2.5	0.2	0.3	2.0

Table F-7.—Summary of Carlot InspectionsAppealed during the Crop Year 1953-54

Item	Winnipeg		Edmonton		Calgary		Total	
	Cars	Percent	Cars	Percent	Cars	Percent	Cars	Percent
Left as Graded.....	375	93.3	223	84.8	306	85.2	904	88.3
Grades Raised.....	27	6.7	40	15.2	52	14.5	119	11.6
Grades Lowered.....	—	—	—	—	1	0.3	1	0.1
Totals.....	402	100.0	263	100.0	359	100.0	1,024	100.0
Total Cars Inspected.....							304,599	100.00
Total Appeals.....							1,024	0.34
Total Grades Changed.....							120	0.04

Table F-8.—Quantities of the Various Grains Inspected and Shipped by Vessel During the Crop Year 1953-54

Grain	Fort William and Port Arthur	Vancouver	Victoria	Prince Rupert	Churchill	Total
	bu.	bu.	bu.	bu.	bu.	bu.
Wheat.....	135,910,272	105,213,633	3,154,600	5,211,175	10,871,912	260,361
Oats.....	87,540,587	2,488,290	32,941	—	—	90,061
Barley.....	82,716,323	14,193,610	170,170	2,863,467	—	99,943
Rye.....	15,836,423	26,000	—	—	—	15,862
Flaxseed.....	5,499,361	618,049	—	—	—	6,117
Buckwheat.....	230,831	—	—	—	—	230
*Mixed Grain.....	245,478	—	—	—	—	245
*Sample Grain.....	56,902	74,816	—	79,664	—	211
*Screenings.....	2,769,135	36,288	—	51,600	—	2,857
U.S.A. Barley.....	—	138,876	—	—	—	138
Totals.....	330,805,312	122,789,562	3,357,711	8,205,906	10,871,912	476,030

* In Bushels of 50 pounds.

F-9.—Outward Cars Inspected—Crop Year August 1, 1953 to July 31, 1954, out of Public, Semi-Public and Private Elevators

Grain	Winnipeg	Fort William and Port Arthur	Calgary	Edmonton	Moose Ja	C
					Number of Carlots	
Wheat.....	866	2,104	742	262	—	471
Oats.....	1,672	5,488	40	112	—	134
Barley.....	507	2,858	810	33	—	25
Flaxseed.....	24	994	23	—	—	8
Rye.....	23	160	31	—	—	1
Mixed Grain.....	95	—	24	2	—	1
Corn.....	22	—	1	—	—	—
Buckwheat.....	3	49	—	—	—	—
Peas.....	75	—	1	—	—	—
Soybeans.....	1	—	—	—	—	—
Sunflower Seed.....	1	—	—	—	—	—
Screenings.....	383	3,290	177	28	—	69
Sample Grain.....	—	251	—	—	—	—
Totals.....	3,672	15,194	1,849	515	—	715
	Saskatoon	Lethbridge	Medicine Hat	Vancouver, Victoria and Prince Rupert	Churchill	
Wheat.....	1,860	7	—	800	—	—
Oats.....	33	3	—	552	—	33
Barley.....	12	—	—	203	—	—
Flax.....	—	—	—	1	—	—
Rye.....	4	1	—	6	—	—
Mixed Grain.....	3	—	—	12	—	—
Corn.....	—	—	—	—	—	—
Buckwheat.....	—	—	—	—	—	—
Peas.....	—	—	—	—	—	—
Soybeans.....	—	—	—	—	—	—
Sunflower Seed.....	—	—	—	—	—	—
Screenings.....	373	1	10	1,848	—	94
Totals.....	2,285	12	10	3,422	—	127

EASTERN DIVISION

Table F-10.—Total Carlot, Cargo and Bin Inspections, Crop Year 1953-54

	Eastern Grain	Eastern Grain Cargoes	Western Grain Cargoes	U.S. Grain Cargoes	Bin Inspection	
					Eastern Grain	Western Grain
Carlots	bu.	bu.	bu.	bu.	bu.	bu.
Montreal.....	257	776,866	786,303	—	408,204	—
Toronto.....	1,181	627,596	122,540	—	—	—
Chatham.....	12,336	5,196,693	—	4,400	52,304	—
Totals	13,774	6,601,155	908,843	4,400	460,508	—

Table F-11.—Carlots, Cargoes and Bins Sampled but not Inspected (Fees Collected), Crop Year 1953-54

	Eastern Grain	Western Grain	U.S. Grain	Total
Carlots				
Montreal.....	93	94	2	189
Toronto.....	—	3	—	3
Chatham.....	15	364	—	379
Totals	108	461	2	571
Cargoes				
bu.	bu.	bu.	bu.	
Montreal.....	521,688·0	2,075,614·0	876,359·0	3,473,661·0
Toronto.....	—	—	—	—
Chatham.....	—	—	—	—
Totals	521,688·0	2,075,614·0	876,359·0	3,473,661·0
Bin Sampling				
bu.	bu.	bu.	bu.	
Montreal.....	331,383·0	238,589·0	—	569,972·0
Toronto.....	—	—	—	—
Chatham.....	—	—	—	—
Totals	331,383·0	238,589·0	—	569,972·0

Table F-12.—Western, Eastern and Foreign Grain Sampled for Export, Export in Bags and Inward by Points (Fees not Collected) Crop Year 1953-54

—	Export	Export in Bags	Inward	Totals
	bu.	bu.	bu.	bu.
Western Grain.....	110,762,965.0	692,057.0	76,837,725.0	188,292,747.
Eastern Grain.....	5,201,033.0	22,377.0	4,615,769.0	9,839,179.
U.S. Grain.....	4,946,610.0	—	6,932,385.0	11,878,995.
Totals.....	120,910,608.0	714,434.0	88,385,879.0	210,010,921.
Montreal.....	93,573,780.0	707,952.0	88,385,879.0	182,667,611.
Sorel.....	3,610,799.0	—	—	3,610,799.
Three Rivers.....	3,542,424.0	4,000.0	—	3,546,424.
Quebec.....	8,179,800.0	—	—	8,179,800.
Halifax.....	2,243,648.0	—	—	2,243,648.
Saint John.....	9,760,157.0	2,482.0	—	9,762,639.
Totals.....	120,910,608.0	714,434.0	88,385,879.0	210,010,921.

Table F-13.—Carlot Inspections from August 1, 1953 to July 31, 1954, by Grains, Grades and Points

Grade	Montreal	Toronto	Chatham	Total
	Carlots			Grains
WHEAT				
1 Canada Eastern Red Winter.....	—	—	4	4
2 Canada Eastern Red Winter.....	—	—	1	1
1 Canada Eastern White Winter.....	—	7	1,077	1,084
2 Canada Eastern White Winter.....	104	370	689	1,163
3 Canada Eastern White Winter.....	3	74	89	166
4 Canada Eastern White Winter.....	—	7	8	153
5 Canada Eastern White Winter.....	2	—	2	4
1 Canada Eastern Mixed Winter.....	3	—	501	504
2 Canada Eastern Mixed Winter.....	4	52	434	490
3 Canada Eastern Mixed Winter.....	—	6	109	115
4 Canada Eastern Mixed Winter.....	—	—	5	5
5 Canada Eastern Mixed Winter.....	—	—	2	2
6 Canada Eastern Winter.....	—	4	—	4
Tough.....	4	131	892	1,027
Smutty.....	19	10	86	115
Sample.....	—	6	59	65
Unfit for Human Consumption.....	—	—	5	52
Condemned.....	—	—	1	1
Totals, Wheat.....	139	667	3,964	4,770
OATS				
2 Canada Eastern White.....	1	1	—	2
3 Canada Eastern.....	—	1	4	5
4 Canada Eastern.....	—	1	2	3
1 Feed.....	1	—	—	1
Mixed Feed Oats.....	—	11	—	11
Tough.....	—	—	1	1
Totals, Oats.....	2	14	7	23

**Table F-13.—Carlot Inspections from August 1, 1953 to July 31, 1954,
by Grains, Grades and Points—continued**

Grade	Montreal	Toronto	Chatham	Total
	Carlots			
BARLEY				
Canada Eastern Six Row.....	—	—	1	1
Canada Eastern Six Row.....	2	2	596	600
Canada Eastern.....	23	2	47	72
Canada Eastern.....	2	—	7	9
Canada Eastern.....	—	—	2	2
Feed.....	47	101	—	148
Feed.....	5	1	—	6
Sample Barley and Broken Grain.....	8	8	—	16
Tough.....	—	—	82	82
Damp.....	—	—	1	1
Sample.....	—	—	1	1
Totals, Barley.....	87	114	737	938
RYE				
Canada Eastern.....	—	—	6	6
Canada Eastern.....	—	13	60	73
Canada Eastern.....	—	—	9	9
Tough.....	—	1	36	37
Sample.....	—	—	2	2
Totals, Rye.....	—	14	113	127
MIXED GRAIN				
Canada Eastern.....	—	—	2	2
Canada Eastern.....	—	1	—	1
Sample.....	—	4	—	4
Totals, Mixed Grain.....	—	5	2	7
BUCKWHEAT				
Canada Western.....	1	—	—	1
Canada Eastern.....	1	—	3	4
Tough Canada Eastern.....	4	—	9	13
Tough Canada Western.....	4	—	—	4
Damp.....	—	—	2	2
Moist.....	—	—	1	1
Sample.....	—	—	2	2
Totals, Buckwheat.....	10	—	17	27

**Table F-13.—Carlot Inspections from August 1, 1953 to July 31, 1954,
by Grains, Grades and Points—continued**

Grade	Montreal	Toronto	Chatham	Total
	Carlots			
CORN				
Extra Dry 1 Canada Eastern Yellow.....	1	7	887	891
1 Canada Eastern Yellow.....	—	1	1,668	1,663
Extra Dry 2 Canada Eastern Yellow	1	2	265	265
2 Canada Eastern Yellow	2	28	691	720
Extra Dry 3 Canada Eastern Yellow	—	1	57	57
3 Canada Eastern Yellow.....	—	9	86	86
Extra Dry 4 Canada Eastern Yellow.....	—	—	13	13
4 Canada Eastern Yellow.....	3	—	27	27
Extra Dry 5 Canada Eastern Yellow.....	—	—	2	2
5 Canada Eastern Yellow.....	—	—	2	2
Extra Dry 1 Canada Eastern White.....	—	—	1	1
Extra Dry 1 Canada Eastern Mixed.....	—	—	2	2
Tough.....	2	3	508	510
Damp.....	—	1	911	911
Moist.....	—	—	415	415
Wet.....	—	—	38	38
Sample.....	—	1	5	5
Totals, Corn.....	9	53	5,578	5,640
BEANS				
1 Canada Eastern Pea.....	—	—	278	278
2 Canada Eastern Pea.....	—	—	255	255
3 Canada Eastern Pea.....	—	—	14	14
3 Canada Eastern Yellow Eyes.....	—	—	2	2
Tough.....	2	—	9	9
Totals, Beans.....	2	—	558	560
SOYBEANS				
1 Canada Yellow.....	—	273	1,137	1,410
2 Canada Yellow.....	—	20	149	160
3 Canada Yellow.....	—	5	14	14
4 Canada Yellow.....	—	2	1	1
5 Canada Yellow.....	—	—	3	3
Tough.....	—	6	50	50
Damp.....	—	—	1	1
Moist.....	—	—	1	1
Sample.....	—	—	2	2
Totals, Soybeans.....	—	306	1,358	1,660
FLAXSEED				
1 Canada Eastern.....	—	5	—	—
2 Canada Eastern.....	—	1	—	—
Tough.....	—	2	—	—
Totals, Flaxseed.....	—	8	—	—

**Table F-13.—Carlot Inspections from August 1, 1953 to July 31, 1954,
by Grains, Grades and Points—concluded**

Grade	Montreal	Toronto	Chatham	Total
	Carlots			
PEAS				
1 Canada Eastern White.....	—	—	1	1
2 Canada Eastern White.....	2	—	1	3
3 Canada Western Small Yellow.....	4	—	—	4
26 Canada Eastern.....	1	—	—	1
72 Damp.....	1	—	—	1
Totals, Peas.....	8	—	2	10
Totals, All Grains.....	257	1,181	12,336	13,774

APPENDIX G

Grain Weighing Branch

S. M. CAPON, *Chief Grain Weighmaster*

Under provisions of sections 33 and 124 of the Canada Grain Act, all grain received at or shipped from licensed terminal elevators is weighed by the Board weighing staffs. The same weighing service is also provided at licensed mill elevators as may be required by licensees. During 1953-54 weighing service was provided at 47 public, semi-public and private terminal elevators in the Western Division. No provision is made by the Board for the weighing by weighmen of all receipts and shipments of grain at eastern elevators, but at nine of these elevators outward truck and carlot shipments for domestic use are weighed by local weighmen who are authorized to issue the Board's weight certificates.

All scales and other equipment for transferring grain from and to the seal in all licensed eastern, terminal and mill elevators, have been regularly inspected by officials of the Weighing Branch under provisions of section 92 of the Act. By special arrangement with the Standards Branch of the Department of Trade and Commerce, the Chief Grain Weighmaster and the Board's scale expert are authorized to act as inspectors under the Weights and Measures Act to inspect, verify and stamp once every year, all weighing machines in licensed terminal and eastern elevators. This inspection has been carried out at all these elevators. In addition to the inspection under the Weights and Measures Act, another inspection is made of all terminal elevator scales once each year and special inspections both of eastern and terminal elevator scales are made whenever any doubt arises as to the accuracy of a scale.

At all railway yards where sampling is carried out and at points of unloading railway cars containing grain are examined in accordance with section 39 of the Canada Grain Act to ascertain if there is any evidence of leakage. Leaking and bad order cars are reported to the consignee and the railway company. During 1953-54 cars found leaking totalled 58,324, and 5,760 cars were without seals or had defective seals.

During the crop year ended July 31, 1954, 307,696 carlots of grain were weighed on receipt into terminal and mill elevators, and 27,596 carlots on shipment from these elevators. In addition 476 million bushels of all grains were weighed into vessels.

Under provisions of sections 139 and 140, the Weighing Branch is required to weigh over stocks of grain contained in every terminal and eastern elevator once in each crop year. During 1953-54, thirty-four terminal and nineteen eastern elevators were weighed over and results were submitted to the Board's Statistics Branch for comparison with outstanding warehouse receipts at preparation of official statements.

This Branch continued close checking of outturns at eastern elevators of cargoes loaded at Lakehead terminal elevators. Upon complaint, investigations were made to determine the cause of excessive shortages. Where liability for shortages could be established, arrangements were made for settlement between the parties involved. Despite several excessive shortages reported, the in-transit loss on cargo shipments to eastern elevators and United States ports during 1953-54 remained at a reasonable level.

The following tables summarize the grain weighed and other information relating to the work of this Branch.

Table G-1—Gross Quantities of All Grains Weighed at Terminal Elevators in the Western Division during 1933-34 Crop Year

Point	Wheat	Oats	Barley	Rye	Flaxseed	Canadian Corn	Canadian Buckwheat	U.S.A. Wheat	U.S.A. Barley	U.S.A. Corn	Canadian Miscellaneous
	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.	lb.
RECEIPTS											
SHIPMENTS											
Fort William-Port Arthur...	165,231,056	95,521,773	89,163,462	11,546,053	8,574,390	1,427	323,704	—	—	7,372	56,649,923
Vancouver-New Westminster...	108,724,093	2,714,087	14,890,457	45,644	617,727	—	—	—	101,178	—	14,506,370
Victoria.....	3,337,900	1,519	6,464	—	—	—	—	—	—	—	—
Prince Rupert.....	5,331,712	782	3,162,307	—	—	—	—	—	—	—	—
Churchill.....	11,245,553	878	—	—	—	—	—	—	—	—	—
Calgary.....	481,482	22,162	1,300,608	80,139	46,752	1,997	—	—	—	—	47,530
Edmonton.....	926,213	196,892	62,692	—	167,962	6,867	—	—	—	—	98,340
Lethbridge.....	107,208	—	1,597	—	—	—	—	—	—	—	—
Moose Jaw.....	942,010	6,634	14,691	9,458	5,010	—	—	—	—	—	10,000
Saskatoon.....	1,266,637	68,384	78,552	11,632	3,938	—	—	—	—	—	5,520,205
North Transcona.....	1,372,362	68,185	—	—	—	—	—	—	—	—	18,589,100
Total Receipts.....	288,966,226	98,533,296	108,679,433	11,694,523	9,417,652	10,291	323,704	—	101,178	7,372	95,425,468
Fort William-Port Arthur...	138,456,200	100,149,982	91,160,643	16,219,383	7,426,172	1,427	316,301	13,202	138,875	—	409,550,857
Vancouver-New Westminster...	106,556,498	41,110,302	14,631,327	47,084	618,905	—	—	—	—	—	172,329,280
Victoria.....	3,122,386	52,620	205,746	—	—	—	—	—	—	—	3,38,190
Prince Rupert.....	5,211,175	6,306	2,863,466	—	—	—	—	—	—	—	21,438,360
Churchill.....	10,980,712	76,098	—	—	—	—	—	—	—	—	6,683,552
Calgary.....	1,008,374	24,430	1,328,753	80,068	40,191	1,997	—	—	—	—	74,190
Edmonton.....	444,625	257,468	63,417	—	150,329	8,366	—	—	—	—	1,843,550
Lethbridge.....	12,412	6,412	—	1,597	1,895	—	—	—	—	—	205,680
Moose Jaw.....	546,996	6,634	14,691	9,458	5,010	—	—	—	—	—	2,555,500
Saskatoon.....	452,199	6,465	—	—	—	—	—	—	—	—	10,362,270
North Transcona.....	1,338,922	135,391	71,381	11,632	3,938	—	—	—	—	—	16,455,310
Total Shipments.....	268,130,499	104,382,108	110,340,034	16,369,222	8,246,440	11,790	316,301	13,202	138,875	—	645,103,739

Note: Weighing service was also given on 35,177 carlots of grain received at interior mills and feed plants, and on 6,497 carlots shipped.

Table G-2.—Number of Cars Leaking and Cars with Missing Seals at the Lakehead, at Other Points and at Winnipeg Yards, by Railways for the Crop Year 1953-54

Destination	Cars Leaking		Missing Seals	
	C.N.R.	C.P.R.	C.N.R.	C.P.R.
Lakehead Elevators and Yards.....	17,866	22,988	743	1,96
Other Points.....	7,191	10,279	1,115	1,94
Totals.....	25,057	33,267	1,858	3,90
Totals, Both Railways.....	58,324		5,760	
Winnipeg Yards.....	1,988	2,946	783	1,26
				la

Table G-3.—Number of Cars Weighed at all Points and Percentage of such Cars found Leaking or with Defective Seals, Crop Years 1952-53 and 1953-54

	Number		Percentage of Total	
	1952-53	1953-54	1952-53	1953-54
Cars Weighed In.....	407,668	307,591	100·0	100·0
Inward Cars Leaking.....	77,146	58,324	17·1	18·3
Inward Cars with Missing or Defective Seals.....	7,016	5,760	1·7	1·4
Cars Weighed Out.....	49,006	27,596	—	—

Table G-4.—Average Reported Outturn Shortages on Vessel Shipments of Grain from Firth William-Port Arthur to Canadian and United States ports during the 1953-54 Crop Year

Grain	Bushels Shipped	Shortage in Pounds per 1,000 Bushels
CANADIAN PORTS		
Wheat.....	121,361,666	30·1
Durum Wheat.....	7,185,059	39·1
Oats.....	34,613,198	20·1
Barley.....	49,045,209	28·7
Rye.....	712,145	34·8
Flaxseed.....	5,498,361	40·6
Buckwheat.....	230,841	32·5
Sample Grain (in lbs.).....	16,743,667	.3 lbs. per 1,000 lbs.
Screenings (in tons).....	20,460	1·9 lbs. per ton

UNITED STATES PORTS

Wheat.....	6,009,049	70·1
Oats.....	52,358,989	29·5
Barley.....	34,571,014	65·7
Rye.....	15,028,067	67·6
Sample Grain (in lbs.).....	4,927,848	Nil
Screenings (in tons).....	54,601	Nil

TOTAL CANADIAN AND UNITED STATES PORTS

Wheat.....	127,370,715	32·0
Durum Wheat.....	7,185,059	39·1
Oats.....	86,972,187	25·8
Barley.....	83,616,223	44·0
Rye.....	15,740,212	66·1
Flaxseed.....	5,498,361	40·6
Buckwheat.....	230,841	32·5
Sample Grain (in lbs.).....	21,671,515	.3 lbs. per 1,000 lbs.
Screenings (in tons).....	75,061	.5 lbs. per ton

APPENDIX H

Statistics Branch

E. E. BAXTER, *Chief Statistician*

This Branch collects, compiles and issues statistics relating to grain movement. Principal grain statistics for 1953-54 crop year and the 1954 season of lake navigation are presented in the following comments and tables.

GRAIN SUPPLIES AND DISPOSITION

A total supply of 1,967.1 million bushels of wheat, oats, barley, rye and flaxseed was available in 1953-54 for domestic use, export and carryover. This was made up of a near record carryover at August 1, 1953 of 645.4 million bushels to which was added the 1953 crops of wheat (614.0 millions), oats (407.0 millions), barley (262.1 millions), rye (28.8 millions), and flaxseed (9.9 million bushels). Disappearance dropped sharply from the high levels of 1952-53; exports declined to 437.9 millions from the record 582.8 million bushels established for the previous year and domestic shipments amounted to 645.7 millions against 670.6 millions for the year ending July 31, 1953. This reduced utilization left a record 883.5 million bushel carryover of Canadian grain on hand when the 1953-54 season ended. Wheat stocks alone totalled 590.3 millions and a further 293.2 millions of oats, barley, rye, flaxseed, combined, were held either in licensed elevators, in transit, or in farmers' bins at July 31, 1954. The balance on operations is shown in broad detail in Table H-1.

MARKETINGS

The flow of grain from farms into commercial channels declined substantially in 1953-54. Western farmers were able to market at country elevators 601.3 million bushels of the five principal grains against the record 834.1 million bushels delivered during the previous crop season. A further 7.0 millions of western grain was delivered to interior terminal and mill elevators, or loaded over platforms. Eastern farmers marketed 8.1 millions to complete the grand total of 616.4 million bushels of wheat, oats, barley, rye and flaxseed delivered to the licensed system during the crop season as against 850.5 million bushels in 1952-53. A summary of western marketings appears in Table H-2.

TERMINAL AND EASTERN HANDLINGS

The overall volume of grain moving forward for domestic use and export through terminal and eastern elevators was sharply reduced in 1953-54; however, Pacific Coast terminals experienced a record handling season. Fort William-Port Arthur elevators received 185,340 cars carrying 360.5 million bushels of the five principal grains compared with 282,965 cars (530.0 million bushels) the previous season. Lake shipments during the crop season amounted to 327.6 millions—131.0 millions less than the 1952-53 high volume.

The reduction in the flow of grain moving into the licensed system was also apparent in lighter eastern elevator operations. Eastern elevators received 233.1 million bushels either from the west or direct from eastern farms against approximately 400 million bushels in the previous year. Domestic shipments

to mills, manufacturing plants and feeders totalled 94.9 millions; overseas exports from St. Lawrence and Maritime ports amounted to 118.2 millions and a further 7.9 million bushels of the five grains moved through these channels to the United States for domestic use.

Both the Pacific Seaboard terminals and the National Harbours Board elevator at Churchill experienced record handlings in 1953-54. Pacific Coast ports shipped 113.3 million bushels of wheat, 2.6 millions of oats, 17.4 million of barley, and .6 million bushels of flaxseed to account for over 50 per cent of Canada's overseas grain clearances and thereby alter the traditional west-to-east shipping pattern of Canadian grain moving forward for export. The port of Churchill further expanded shipping through the northern passage with the loading of 11.0 million bushels of wheat in 1953-54. Further details of these handlings may be found in Tables H-3 to H-6.

EXPORTS

Canada's grain exports during the crop year 1953-54 totalled 437.9 million bushels of the five principal grains, wheat flour, rolled oats and oatmeal. Although down from the record level of 582.8 millions in 1952-53, these clearances still represented a major share of the world trade in commercial grains and retained for Canada her position as the leading grain exporting nation of 1953-54.

Canada exported 255.1 million bushels of wheat and wheat flour, 70.1 million bushels of oats and milled oats, 90.1 million bushels of barley, 16.1 million bushels of rye and 5.2 million bushels of flaxseed during the crop season. Oats, rye, flaxseed, rolled oats, and oatmeal exports represented gains over Canada's 1952-53 clearances of these commodities; the exports of wheat, wheat flour and barley dropped from last year's levels although still holding above the long-term average of the annual exports since 1923-24. Principal data on this export movement appear in tables H-7 to H-9 and full particulars are presented in the publication *Canadian Grain Exports 1953-54** prepared by this Branch.

LAKE TRANSPORTATION 1954 SEASON

The first vessel of the 1954 season to reach the Lakehead was the *S.S. Starbelle*, entering port on April 16, 20 days later than the 1953 opening. The last vessel, the *S.S. John E. F. Misener* closed the season on December 14, ten days earlier than the December 24 late closing record set in 1923. The *S.S. Misener* represented the 1,104th cargo loaded during the season, less than two-thirds the 1,833 vessels which cleared Fort William-Port Arthur during 1953. The shipping total for the 1954 season included 292.7 million bushels of the five principal grains; this was down substantially from the 1953 volume of 441.7 millions and from the record 483.7 millions moved from the Lakehead by vessel in 1945. The 1954 season was the lightest since 1950 (201.9 millions) but still well in excess of the record low of 113.4 millions moved in 1937. The following individual grain totals are recorded for 1954; wheat, 140.7 millions, oats, 58.5 millions, barley, 80.6 millions, rye, 8.5 millions and flaxseed, 4.4 million bushels.

A reduced demand for lake grain tonnage was evident early in the 1954 season. In May, rates broke 1 to 2 cents per bushel from the maximum allowable levels which had prevailed for the past several seasons. Further adjustments later in the year brought the average for the season on wheat cargoes to Bay Ports to 4.3 cents per bushel against 5.5 cents last year and on wheat

* See list of publications in Appendix M.

sea Montreal, direct, to 14.4 cents as compared with 16.0 cents for 1953. Similar declines were registered in the rates on other grains and on cargoes to United States ports with wheat from Fort William to Buffalo averaging 6.2 cents per bushel over the season, down 2.3 cents per bushel from the previous year's average. Details of these rates appear in Table H-10.

GENERAL

The Branch continued its major function of collecting, recording and publishing pertinent statistics on Canadian grain operations. Statistical bulletins were distributed to the grain trade and interested persons without charge. This year the principal release, a mimeographed weekly bulletin, *The Canadian Grain Position* was revised and expanded to provide improved detail. Adoption of reports and records to the punch-card accounting system installed during 1953 was further expanded. The office worked in close co-operation with the trade to improve and standardize outturn forms and reporting procedures.

The general functions of the Branch also included the preparation of statements covering the weighover of grain in terminal and eastern elevators. Detailed records of Canadian grain prices have been maintained as required under section 21 of the Canada Grain Act, and in pursuance of section 102 storage value reports and grain insurance documents have been examined to ensure adequate protection to the owners of grain held in licensed elevators. Annual stock and handling returns from 5,174 country elevators, required under Board Regulation No. 17, have been received, checked and tabulated by means of punched cards and analytical statements have been prepared on averages and shortages on 1953-54 country elevator operations for Board review.

Table H-1.—Supply and Disposition of Canadian Grain, Crop Year 1953-54

	—	Wheat	Oats	Barley	Rye	Flaxseed
		bu.	bu.	bu.	bu.	bu.
SUPPLY						
Carry-over July 31, 1953.....	369,185,486	144,409,075	111,666,834	16,190,618	3,939,420	
Production in 1953.....	613,962,000	406,960,000	262,065,000	28,775,000	9,912,000	
Total Supply.....	983,147,486	551,369,075	373,731,834	44,965,618	13,851,420	
DISPOSITION						
Exported Overseas.....	247,468,998	4,822,461	53,123,132	538,813	5,172,216	
Exported to U.S.A.....	7,678,152	65,877,614	36,921,199	16,296,240	—	
Consumed in Canada*.....	137,694,660	354,943,615	138,109,571	8,855,870	6,101,492	
Total Disposition*.....	392,841,810	425,643,690	228,153,902	25,690,923	11,273,708	
CARRY-OVER (July 31, 1954)						
On Farms (estimated).....	205,860,000	97,250,000	96,810,000	12,860,000	1,030,000	
In Country, Private Terminal and Mill Elevators.....	217,680,708	20,412,978	33,976,015	3,661,643	463,371	
In Public and Semi-Public Terminal Elevators.....	77,338,596	2,095,796	7,711,397	1,400,199	646,381	
In Store at and Afloat to Eastern Elevators.....	71,879,092	3,166,130	3,735,265	813,742	313,874	
In Eastern Flour Mills*.....	2,066,000	176,000	100,000	6,000	—	
In Transit by Rail—Eastern and Western Divisions*.....	15,374,001	2,624,481	3,241,755	474,409	124,086	
In Store and in Transit to the United States.....	107,279	—	63,500	28,702	—	
Total in Store July 31, 1954*..	590,305,676	125,725,385	145,577,932	19,274,695	2,577,712	

* Subject to revision.

**Table H-2.—Production and Producers' Marketings in Western Canada, by Provinces,
Crop Year 1953-54**

—	Wheat	Oats	Barley	Rye	Flaxseed
	bu.	bu.	bu.	bu.	bu.
PRODUCTION (DBS estimate)					
Manitoba.....	46,000,000	53,000,000	61,000,000	2,750,000	3,800,000
Saskatchewan.....	375,000,000	111,000,000	82,000,000	14,400,000	3,500,000
Alberta and British Columbia.....	165,605,000	117,586,000	110,716,000	9,860,000	2,075,000
Totals.....	586,605,000	281,586,000	253,716,000	27,010,000	9,375,000
PRODUCERS' MARKETINGS—					
(a) At Country Elevators					
Manitoba.....	35,664,693	17,542,840	30,242,222	1,651,980	2,938,800
Saskatchewan.....	251,324,108	42,897,169	35,580,402	6,655,338	2,506,800
Alberta.....	105,438,836	28,653,275	35,135,241	3,408,296	1,638,100
Totals.....	392,427,637	89,093,284	100,957,865	11,715,614	7,083,700
(b) At Public and Semi-Public Terminals					
Manitoba.....	2,373	1,514	9,668	—	—
Saskatchewan.....	—	—	—	—	—
Alberta.....	108,800	197,975	44,967	—	1,110
Totals.....	111,173	199,489	54,635	—	1,110
(c) At Interior Private and Mill Elevators					
Manitoba.....	369,419	74,250	41,926	—	120,700
Saskatchewan.....	1,645,530	228,249	82,533	11,411	13,100
Alberta.....	2,017,279	617,630	136,389	91,407	146,800
Totals.....	4,032,228	920,129	260,848	102,818	280,600
(d) Loaded over Platforms					
Manitoba.....	75,338	34,993	51,087	1,600	9,600
Saskatchewan.....	174,173	50,821	55,970	3,095	18,000
Alberta.....	140,060	68,169	16,664	2,900	9,200
Totals.....	389,571	153,983	123,721	7,595	36,800
(e) Trucked from Farms into United States*					
Manitoba.....	—	—	—	174,715	—
Saskatchewan.....	—	—	—	208,525	—
Alberta.....	—	—	—	50	—
Totals.....	—	—	—	383,290	—
Total Producers' Marketings					
Manitoba.....	36,111,823	17,653,597	30,344,903	1,828,295	3,069,100
Saskatchewan.....	253,143,811	43,176,239	35,718,905	6,878,369	2,537,000
Alberta.....	107,704,975	29,537,049	35,333,261	3,502,653	1,795,400
Totals.....	396,960,609	90,366,885	101,397,069	12,209,317	7,402,500

* Customs returns, Dominion Bureau of Statistics.

Table H-3.—Receipts and Shipments at Eastern Elevators, Crop Year 1953-54

		Receipts bu.	Shipments bu.
Canadian Grain—			
Wheat.....		139,092,980	121,853,724
Oats.....		35,153,999	36,282,410
Barley.....		50,826,294	53,925,172
Rye.....		980,437	1,599,823
Flaxseed.....		7,068,498	7,281,734
Corn.....		4,268,779	4,476,646
Beans.....		1,526,996	1,552,945
Buckwheat.....		535,671	611,787
Peas.....		209,835	207,836
Mixed Grain.....(lbs.)		259,410	2,840,510
Sample Grain.....(lbs.)		18,903,210	19,283,027
United States Grain—			
Wheat.....		—	84
Flaxseed.....		3,568,757	2,518,166
Corn.....		12,062,829	11,497,716
Beans.....		557,909	662,436
Other Foreign Grain—			
Argentine Oats.....		—	1,147

Table H-4.—Shipments of Foreign Grain from Canadian Elevators into Canadian Consumer Channels, Crop Year 1953-54

From	United States Wheat bu.	United States Corn bu.	United States Beans bu.	Argentine Oats bu.
Eastern Elevators.....	84	2,862,706	633,611	1,147
Fort William-Port Arthur.....	—	7,368	—	—
Interior Terminals.....	—	—	—	—
Interior Private and Mill Elevators.....	—	576,605	—	—
Pacific Coast Elevators.....	13,202	—	—	—

Table H-5.—Receipts and Shipments of Canadian Grain at Terminal Elevators, Crop Year 1953-54

—	Wheat	Oats	Barley	Rye	Flaxseed
	bu.	bu.	bu.	bu.	'bu.
Fort William-Port Arthur—					
Receipts.....	161,142,098	93,818,372	87,166,492	11,072,577	7,285,
Shipments.....	138,210,842	99,571,306	90,420,016	16,043,943	7,270,
Vancouver-New Westminster—					
Receipts.....	105,251,142	2,586,998	14,597,005	44,955	617,
Shipments.....	105,873,128	4,072,655	14,536,392	47,084	618,
Victoria—					
Receipts.....	3,245,628	1,357	6,396	—	—
Shipments.....	3,122,387	52,620	205,745	—	—
Prince Rupert—					
Receipts.....	5,140,072	709	3,122,847	—	—
Shipments.....	5,211,174	6,306	2,863,467	—	—
Churchill—					
Receipts.....	11,020,002	878	—	—	—
Shipments.....	10,980,712	76,099	—	—	—
Transcona—					
Receipts.....	1,348,360	68,159	78,198	11,632	3,
Shipments.....	1,338,923	135,391	71,381	11,632	3,
Calgary—					
Receipts.....	474,225	22,005	1,299,999	80,087	39,
Shipments.....	1,008,374	24,430	1,328,752	80,068	39,
Edmonton—					
Receipts.....	895,650	196,398	62,544	—	148,
Shipments.....	444,625	257,469	63,417	—	148,
Lethbridge—					
Receipts.....	104,879	—	—	1,597	1,
Shipments.....	12,412	6,412	—	1,597	1,
Moose Jaw—					
Receipts.....	925,554	6,633	14,692	9,458	5,
Shipments.....	546,996	6,633	14,692	9,458	5,
Saskatoon—					
Receipts.....	1,227,967	384	—	—	—
Shipments.....	452,199	6,465	—	—	—
Total Receipts.....	290,775,577	96,701,893	106,348,173	11,220,306	8,102,
Total Shipments.....	267,201,772	104,215,786	109,503,862	16,193,782	8,088,

Table H-6.—Supply and Disposition of Canadian Grain in United States Positions, Crop Year 1953-54

—	Wheat	Oats	Barley	Rye
	bu.	bu.	bu.	bu.
SUPPLY				
In Store and In Transit, U.S.A.....	535,395	733,159	265,550	792,
Receipts direct from Canada.....	7,905,544	65,144,455	36,873,649	15,503,
Total Supply.....	8,440,939	65,877,614	37,139,199	16,296,
DISPOSITION				
Exported.....	125,606	—	—	—
Returned to Canada.....	529,902	—	218,000	—
Used Domestically.....	7,678,152	65,877,614	36,921,199	16,296,
Total Disposition.....	8,333,660	65,877,614	37,139,199	16,296,
In Store and In Transit, July 31, 1954.....	107,279	—	—	—

BOARD OF GRAIN COMMISSIONERS

55

Table H-7.—Exports of Canadian Wheat, by Seaboard Sectors, by Months, Crop Year 1953-54

	Via Canadian Pacific Ports	Via Canadian St. Lawrence- Atlantic Ports	Via Churchill	Via Fort William- Port Arthur direct	Via United States Atlantic Ports	United States Imports ¹	Total All Wheat	Wheat Flour ²	Total Wheat and Wheat Flour
	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.	bu.
1953									
August.....	12,610,277	7,010,119	4,454,772	57,354	77,187	285,171	24,721,320	3,724,146	28,445,466
September.....	9,756,064	6,694,023	4,164,673	43,120	39,233	94,568	20,870,064	3,364,324	24,234,898
October.....	9,932,934	10,194,488	1,862,467	—	—	196,591	22,330,485	3,370,941	25,701,426
November.....	10,153,746	8,661,501	—	—	—	843,720	20,384,646	4,052,313	24,416,959
December.....	9,926,337	2,930,638	—	—	—	547,141	13,651,833	4,102,767	17,754,600
1954									
January.....	10,393,275	3,023,101	—	—	9,186	409,376	—	13,825,752	3,962,394
February.....	8,929,144	1,334,478	—	—	—	286,991	—	10,559,799	3,126,456
March.....	10,313,657	3,765,826	—	—	—	167,378	—	14,246,861	4,634,010
April.....	7,576,806	3,131,530	—	—	—	776,867	—	11,484,745	3,806,532
May.....	8,392,826	8,551,670	—	—	42,266	606,442	621,688	18,214,892	4,254,687
June.....	7,617,208	12,236,446	—	—	—	1,183,548	21,174,009	4,021,821	25,195,830
July.....	7,743,376	9,028,924	498,800	—	—	119,620	—	17,380,720	3,891,123
Totals Crop Year 1953-54.....	113,345,192	76,562,724	10,950,712	142,740	125,606	5,517,413	2,160,739	208,835,126	46,312,024
Totals Crop Year 1952-53.....	104,715,854	188,836,558	8,620,622	206,911	3,748,939	17,133,344	5,763,620	329,025,828	56,500,713³
5-year average 1948-49 to 1952-53 ..	78,875,913	126,760,913	6,755,137	128,097	3,850,644	13,391,177	6,733,957	236,495,868	51,459,884³
									287,955,752

¹ Compiled from returns received by Canadian elevator licensees and shippers, and from reports supplied by United States grain correspondents.

² Canadian Customs returns converted to bushel equivalents (4.5 bushels of wheat to one barrel of flour).

³ Revised—adjusted to remove effect of time lag in reports made by Customs.

Table H-8.—Overseas Exports of Canadian Grain, by Seaboard Sectors,
by Grades, Crop Year 1953-54

Grades	Via Canadian Pacific Ports	Via Canadian St. Lawrence- Atlantic Ports*	Via Churchill	Via United States Atlantic Ports	Total
	bu.	bu.	bu.	bu.	bu.
WHEAT—					
1 Manitoba Northern.....	7,839,651	7,988,669	584,675	—	16,412,99
2 Manitoba Northern.....	41,117,916	35,167,823	6,680,486	9,186	82,975,41
3 Manitoba Northern.....	38,206,728	15,944,881	1,345,700	—	55,497,30
4 Manitoba Northern.....	13,504,290	3,297,475	634,998	—	17,436,76
No. 5.....	10,762,688	3,463,048	1,734,853	—	15,960,58
No. 6.....	704,733	83	—	—	704,81
Feed.....		13,084	—	—	13,08
2 C.W. Garnet.....	112,412	—	—	—	112,41
3 C.W. Garnet.....	896,238	—	—	—	896,23
2 Alberta Winter.....	148,020	—	—	—	148,02
3 Alberta Winter.....	52,516	—	—	—	52,51
Other Western.....	—	614,221	—	—	614,22
Eastern.....	—	4,295,901	—	116,420	4,412,32
3 C.W. Amber Durum.....	—	5,506,163	—	—	5,506,16
4 C.W. Amber Durum.....	—	414,116	—	—	414,11
Totals.....	113,345,192	76,705,464	10,980,712	125,606	201,156,97
OATS—					
2 C.W.....	2,941	64,522	—	—	67,46
Extra 3 C.W.....		49,892	—	—	49,89
3 C.W.....	187,904	285,763	—	—	473,66
Extra 1 Feed.....	1,144,861	—	—	—	1,144,86
1 Feed.....	855,941	265,397	—	—	1,121,33
2 Feed.....	—	16,470	—	—	16,47
Mixed Feed.....	439,070	683,911	—	—	1,122,98
Eastern.....	—	39,359	—	—	39,35
Totals.....	2,630,717	1,405,314	—	—	4,036,03
BARLEY—					
3 C.W. Six-Row.....	6,006,523	4,107,338	—	—	10,113,86
4 C.W. Six-Row.....	—	460,542	—	—	460,54
2 C.W. Two-Row.....	43,576	—	—	—	43,57
3 C.W. Two-Row.....	1,490,509	2,512,536	—	—	4,003,04
1 Feed.....	8,438,356	6,012,188	—	—	14,450,54
2 Feed.....	1,150,455	20,739,684	—	—	21,890,13
3 Feed.....	—	1,731,319	—	—	1,731,31
Tough 1 Feed.....	—	11,667	—	—	11,66
Tough 2 Feed.....	—	42,000	—	—	42,00
Tough 3 Feed.....	—	27,945	—	—	27,94
Other Western.....	222,560	105,920	—	—	328,48
Eastern.....	—	20,014	—	—	20,01
Totals.....	17,351,979	35,771,153	—	—	53,123,13
RYE—					
2 C.W.....	26,000	138,045	—	—	164,04
3 C.W.....	—	374,768	—	—	374,76
Totals.....	26,000	512,813	—	—	538,81
FLAXSEED—					
1 C.W.....	618,049	4,514,229	—	—	5,132,27
Other Western.....	—	35,202	—	—	35,20
Eastern.....	—	4,736	—	—	4,73
Totals.....	618,049	4,554,167	—	—	5,172,21

* Includes clearances of 142,740 bushels wheat and 641,683 bushels barley from Fort William-Port Arthur direct.

Table H-9.—Overseas Exports of Canadian Grain, by Ports, Crop Year 1953-54

Loaded at	Wheat (All varieties)	Oats	Barley	Rye	Flaxseed	Total All Grains
	bu.	bu.	bu.	bu.	bu.	bu.
Vancouver-New Westminster.....	105,013,352	2,597,776	14,284,408	26,000	618,049	122,539,585
Victoria.....	3,120,666	32,941	204,104	—	—	3,357,711
Prince Rupert.....	5,211,174	—	2,863,467	—	—	8,074,641
Montreal.....	52,463,191	1,381,968	32,525,596	512,813	3,198,476	90,082,044
Sorel.....	3,156,800	—	454,000	—	—	3,610,800
Three Rivers.....	3,546,425	—	—	—	—	3,546,425
Quebec.....	7,760,864	—	419,470	—	40,862	8,221,196
St. John.....	401,333	—	—	—	—	401,333
West St. John.....	6,800,287	23,346	1,730,404	—	1,169,039	9,723,076
Halifax.....	2,433,824	—	—	—	145,790	2,579,614
Churchill.....	10,980,712	—	—	—	—	10,980,712
Fort William-Port Arthur (direct).....	142,740	—	641,683	—	—	784,423
Totals—Canadian Ports.....	201,031,368	4,036,031	53,123,132	538,813	5,172,216	263,901,560
New York.....	9,186	—	—	—	—	9,186
Philadelphia.....	116,420	—	—	—	—	116,420
Totals—U.S.A. Ports.....	125,606	—	—	—	—	125,606
Totals to Overseas.....	201,156,974	4,036,031	53,123,132	538,813	5,172,216	264,027,166
Wheat Flour ¹	46,312,024	—	—	—	—	46,312,024
Rolled Oats and Oatmeal ¹	—	786,430	—	—	—	786,430
U.S.A. Imports ²	7,678,152	65,877,614	36,921,199	16,296,240	—	126,773,205
Grand Totals.....	255,147,150	70,700,075	90,044,331	16,835,053	5,172,216	437,898,825

¹ Canadian Customs Returns—converted to bushel equivalents (4.5 bushels wheat to 1 barrel of flour 1 bushel of oats to 16.5 pounds of rolled oats or oatmeal).

² Compiled from returns received from Canadian Elevator licensees and shippers and from reports supplied by United States grain correspondents.

Table H-10.—Weighted Average Lake Freight Rates on Canadian Grain from Fort William-Port Arthur, Season of Navigation 1954

Port of Discharge	Wheat	Oats	Barley	Rye	Flaxseed
(cents per bushel)					
Georgian Bay Ports, Goderich, Sarnia and Walkerville.....	4.296	4.037	4.151	4.167	5.5
Port Colborne.....	6.340	5.933	6.420	6.323	—
Toronto.....	6.918	6.173	6.487	—	6.855
Kingston.....	7.356	6.563	7.089	—	—
Prescott.....	7.514	6.798	7.299	7.868	—
Montreal.....	14.403	11.726	13.648	13.594	16.091
Montreal via Port Colborne.....	14.174	11.352	13.323	13.5	16.126
Montreal via Kingston.....	14.103	11.377	13.151	13.570	15.016
Montreal via Prescott.....	13.872	11.165	13.006	13.5	14.854
Sorel.....	14.5	12.0	—	—	—
Sorel via Port Colborne.....	13.803	—	12.75	—	—
Sorel via Kingston.....	13.5	—	—	—	—
Sorel via Prescott.....	13.5	11.0	12.75	13.5	—
Three Rivers via Port Colborne.....	13.5	—	12.75	—	—
Three Rivers via Prescott.....	13.5	—	—	—	—
Quebec.....	14.269	11.527	13.928	—	—
Quebec via Prescott.....	13.656	11.606	13.254	—	—
Buffalo.....	6.164	4.077	5.160	5.745	—
Chicago.....	7.5	4.201	—	5.558	—
Detroit.....	—	—	5.6	—	—
Duluth-Superior.....	4.711	3.413	4.778	4.116	—
Erie.....	6.756	5.0	—	—	—
Huron.....	6.0	3.337	4.471	—	—
Manitowoc.....	—	—	6.420	—	—
Milwaukee.....	6.303	—	5.737	7.5	—
Oswego.....	—	4.75	10.0	—	—
Toledo.....	—	4.858	—	—	—

NOTE.—Rates originally quoted in United States Funds have been converted to Canadian currency at the prevailing rates of exchange.

TABLE H-11.—Tough and Damp Grain Dried, by Storage Position, Crop Year 1953-54

	Artificial Drying				Natural Drying	Total
	Tough	Damp	Tough and Damp			
bushels						
LAKEHEAD						
Wheat.....	6,706,519	35,438	6,741,957	12,385,648	19,127,60	
Durum Wheat.....	4,250	3,177	7,427	48,364	55,74	
Oats.....	29,249	24,718	53,967	851,439	905,40	
Barley.....	754,714	13,410	768,124	5,112,721	5,880,84	
Rye.....	3,441	—	3,441	689,170	692,61	
Flaxseed.....	9,766	1,205	10,971	45,199	56,19	
Totals.....	7,507,939	77,948	7,585,887	19,132,541	26,718,4	
PACIFIC COAST						
Wheat.....	189,198	19,165	208,363	5,083,589	5,291,95	
Oats.....	127,711	9,402	137,113	80,685	217,74	
Barley.....	58,988	—	58,988	1,072,336	1,131,33	
Flaxseed.....	—	—	—	1,350	1,350	
Totals.....	375,897	28,567	404,464	6,237,960	6,642,4	
INTERIOR						
Wheat.....	—	7,326	7,326	548,601	555,92	
Oats.....	—	859	859	—	85	
Totals.....	—	8,185	8,185	548,601	556,78	
CHURCHILL						
Wheat.....	530,447	—	530,447	1,342,351	1,872,79	
Totals, All Positions.....	8,414,283	114,700	8,528,983	27,261,453	35,790,4	

APPENDIX I

The Grain Research Laboratory

J. ANSEL ANDERSON, *Chief Chemist*

The following report deals with the quality of grain marketed during the 1953-54 crop year, the quality of the 1954 crops, and with research and other activities of the Board's Grain Research Laboratory during the year 1954.

GRAIN QUALITY

Crop year studies on the qualities of spring wheat, durum wheat, barley and flax, sampled at various stages of marketing in 1953-54, showed spring wheat was high in bushel weight and similar to that for the previous crop year. Milling quality was excellent but protein content was below the long-time average. Durum wheat was also high in bushel weight, and, although protein content was low, macaroni quality was very good. Malting barley was satisfactory in nitrogen content and high in yield of malt extract. Although the oil yield of flax was a little below that of the previous crop, drying quality was much the same in both crop years. More complete and detailed data have been prepared for early publication in the *Grain Research Laboratory 1954 Report*.*

Severe epidemics of stem and leaf rust, followed by wet harvesting weather, reduced both the yield and grade of 1954 wheat. Less than half the crop will grade No. 4 Northern and higher, and Nos. 1 and 2 Northern will be small grades. Considered as a 3 and 4 Northern crop, bushel weight is lower and protein content is not much different from 1953 wheat. Milling quality is not quite as good this year, but baking strength is higher; absorption and gassing power are satisfactory, and doughs handle very well. Adequate stocks of high grade wheat of good milling quality, carried over from last year, are available for sale in domestic and foreign markets.

Rust damage to durum wheat was more severe and widespread in 1954 than in 1953. Accordingly, despite increased acreage, the 1954 crop is one of the smallest ever harvested. Much of the crop will grade No. 3 C.W. and there will be considerable amounts of lower grades. Grade for grade, macaroni quality is a little better than for last year's crop, and the lower grades are unusually high in yellow pigment.

Malting quality of the new barley crop is above average, but not as good as that of last year's crop. Nitrogen content is a little higher, and bushel weight, percentage plump barley, and kernel weight are lower this year. Despite the small kernel size of this year's barley, yield of malt extract is high and enzymatic activity is well balanced. A good proportion of the new crop is entering the malting grades.

Oil content and iodine number of the current flax crop are the highest recorded since work on flax crops was begun in 1934. More flax was produced this year than last, and the bulk of it is grading No. 1 C.W.

Detailed information on the quality of different grades of 1954 grain crops was presented to the Committee on Western Grain Standards and was published by the laboratory in four crop bulletins and two maps.*

* See Appendix M.

Heavy rains during the early harvesting period of 1954, and restrictions¹ deliveries, created a serious problem for farmers. The writer prepared a series² of five 5-minute talks on "The Problem of Tough and Damp Grain"; these were recorded on tape and were broadcast over eleven stations in Western Canada.³ The weather subsequently improved, but appreciable amounts of tough and damp grain were harvested in the Peace River district and in the northeastern and northwestern sections of Saskatchewan. As a result, farm drying in these areas began in late November. The laboratory again offered free sample testing service to enable farmers to operate dryers without damage to the quality of grain.

The laboratory continued to work in close co-operation with the Grain Inspection Branch. Assistance was provided in preparing information on the quality of the tentative standard and standard export samples. Supervision of equipment and technique of moisture testing was continued throughout the year, and further field trials were made with electrical moisture meters. Special tests on current crop samples were undertaken, from time to time, to provide information that would assist in grading. The laboratory also continued to co-operate with other Government departments and scientific institutions on problems of mutual interest.

As in previous years, the laboratory took a major part in studies, sponsored by the Associate Committee on Grain Research, of the quality of varieties of spring wheat, durum wheat, and malting barley. The results confirmed the satisfactory milling and baking qualities of Selkirk, and showed that C.T. 91 is a variety which has been tested for several years, is equal in quality to Marquis. The latter variety has now been licensed and named Lake, and is recommended for growing in the drier areas of Saskatchewan and Alberta. Among new durum varieties, D.T. 136 and 137 appeared to be the most promising of those resistant to 15B rust. Several new varieties of barley showed good malting qualities, especially Brandon 3833 and 3878, and U.M. 570; three new varieties of feeding barley, Vantmore, Wolfe and Brant, were licensed during 1954.

In another variety study, sponsored by the Northwest Crop Improvement Association, in which bread wheat varieties suitable for production in the northern United States are tested, the laboratory had opportunity to study the quality of samples of Selkirk grown side by side with Thatcher and Lee at a number of stations in Minnesota and the Dakotas. The results showed that Selkirk is a satisfactory variety similar in quality to Thatcher and Lee. The Canadian variety Selkirk should rapidly become the leading rust-resistant variety of spring wheat in both Canada and the United States.

BASIC RESEARCH

Fundamental research has continued to be a dominant activity of the laboratory. In the bread wheat section, studies of the relation of the physical properties of dough to the breadmaking qualities of wheat have been emphasized. Changes in dough properties are followed by measuring the rate of structural relaxation. This method has been applied to investigations on the effect of the mixing action on doughs mixed in nitrogen, on the effect of acids normally produced in fermented doughs, on the improver action of bromate, and on the influence of salts on dough properties. A more precise method of characterizing structural relaxation curves has been developed. Progress has been made in interpreting Alveogram data on the physical properties of doughs in terms of more fundamental units, and the performance of an English dough testing instrument, the "Research" extensometer, has also been examined. To meet the requirements of the laboratory for dough mixers with an airtight bowl, three units of a new model of the GRL mixer have been built. This mixer has now displaced other types of dough mixers throughout the laboratory.

The durum section has continued work on the enzyme lipoxidase, which is a key factor controlling the macaroni-making quality of durum wheat. It has now been found that the second phase of the reaction shows a break in its activation energy curve similar to that reported for the initial phase. This gives a better understanding of the mechanism of the reaction controlling the loss of color during processing of macaroni. It has also been found that lipoxidase is inhibited by cyanide, which is contrary to previous reports in the literature. The enzyme is also inhibited by the products of the reaction in the absence of substrate and this inhibition has been studied in some detail. A large scale experiment has been conducted to evaluate the possibility of using the reflectance spectrophotometer for measuring semolina and macaroni color. As a result of this work the method of reporting macaroni color has been changed and should now be highly reproducible from year to year. The wheats studied were carlot samples, and opportunity was taken to test and revise the prediction equations previously developed for assisting plant breeders in selecting promising new varieties at early stages of their breeding programs. Finally, the laboratory macaroni equipment has been modified so that mixing may be done in vacuum in line with commercial practice in Europe and in larger plants in Canada. Considerable work has been done in studying the effects of this change, and comparative studies of the old and new techniques will continue for some time.

The malting barley section has continued studies of the effect on malting quality, of barley and malt gums and the enzymes that degrade them. Malt gums differ from barley gums in composition, and it appears that the gum-degrading enzyme systems developed during malting must differ from those present in barley. Additions of enzyme extracts from germinated barley or kilned malt affect both yield and composition of gums extracted from barley. The mechanism of gum degradation by enzymes has been studied kinetically and by examination of reaction products. At least two enzyme systems are involved, but only one of these appears to degrade cell walls and can be classed as cytolytic. Varietal differences in cytolytic activity of green malt have been demonstrated and more extensive studies are in progress. Work has been continued on developing laboratory malting equipment for 12-lb. samples; this is required both for research and for more exhaustive testing of new varieties. A pilot model of a drum type germination chamber was constructed. Experiments with this model yielded a final design for which detailed drawings have been completed; construction will be started shortly.

In the analytical section a more precise method, involving an amperometric titration, was developed for the determination of potassium bromate in flour and dough. The method should have widespread practical application, and is also being employed in research designed to find a chemical explanation of the improving action of potassium bromate in bread doughs. Methods for determining potassium iodate and ammonium persulfate in flours and doughs are now being studied. A micro-method for detecting mercurial fungicides on as few as 10 to 12 kernels of wheat, barley, rye and oats was also developed. Further experiments were undertaken to measure the reduction in the mercury content of treated wheat resulting from scouring and washing. The distribution of remaining mercury among flour, shorts and bran, was also studied. Investigations of the isolation and characterization of "adhesive glutens" from wheat, barley and rye, and of a corresponding protein from oats have been concluded.

GRAIN AND FLOUR MISSION

The writer was a member of the "Canadian Grain and Flour Mission to the Far East" which visited Tokyo, Hong Kong, Manila, Singapore, Djakarta, Colombo, Karachi, New Delhi and Bombay during January and February. The

mission's report has been published elsewhere*; a better understanding of the quality requirements of the various markets was obtained and several minor research projects relating to these matters were initiated during the year. The laboratory was also visited by official missions from Japan, Brazil, Switzerland and Ireland.

STAFF

During the year, two members of the staff obtained the degree of Doctor of Philosophy: Dr. D. K. Cunningham from the University of Minnesota, and Dr. E. J. Bass from the University of Manitoba. Mr. J. R. Cunningham resigned to accept a position with the Defence Research Board and considerable difficulty is being experienced in finding another physicist to carry on his work. Mr. W. Bushuk has been granted leave of absence to start studies for the Ph.D. degree at McGill University.

In accordance with past practice, a detailed report on the work of the Grain Research Laboratory has been prepared for publication to put on record data on the quality of Canadian crops and progress reports on laboratory research.

APPENDIX J

Canadian Government Elevators

A. E. JACOBSON, *General Manager*

In accordance with provisions of section 166 of the Canada Grain Act and Order-in-Council P.C. 1372 of August 19, 1925, the Board manages and operates five interior terminal elevators at Moose Jaw, Saskatoon, Calgary, Edmonton and Lethbridge, and one terminal elevator at Prince Rupert, and manages one terminal elevator at Port Arthur. The interior and Prince Rupert terminal elevators are operated under public terminal elevator licences, while the Port Arthur elevator has been under lease to McCabe Grain Company Limited continuously since August 1, 1933, with the present lease expiring July 3, 1964.

HANDLINGS

Owing to the large stocks in store at the beginning of the crop year and the general congested storage situation, receipts were approximately one-half the receipts during the previous crop year. At all elevators except Calgary and Prince Rupert, receipts were mainly wheat. At Calgary, the major portion of receipts were malting barley and at Prince Rupert, receipts were approximately five million bushels of wheat and three million bushels of barley. Receipts and shipments during the 1953-54 crop year at these elevators were as follows:

Elevator	Capacity	Stocks August 1, 1953	Net Receipts	Net Shipments	Stocks July 31, 1954
	million bu.	bu.	bu.	bu.	bu.
Moose Jaw.....	5.50	5,096,022	961,347	583,088	5,467,0
Saskatoon.....	5.50	4,676,173	1,338,504	569,464	5,451,5
Calgary.....	2.50	1,814,190	1,918,791	2,484,100	1,247,
Edmonton.....	2.35	1,418,376	1,310,805	923,223	1,824,
Lethbridge.....	1.25	1,071,379	108,349	22,294	1,168,
Prince Rupert.....	1.25	389,387	8,263,628	8,081,688	577,5
Totals.....	18.35	14,466,427	13,901,424	12,663,857	15,736,1

* Foreign Trade, 101 (10): p. 2-17. June 12, 1954.

CHARGES

A storage charge of one forty-fifth of one cent (1/45c) per bushel per day was in effect at all interior terminal elevators, and one thirty-fifth of one cent (1/35c) at Prince Rupert. The elevation charges at the Prince Rupert elevator were the same as in effect at all other Pacific and Lakehead terminal elevators but at the interior elevators the elevation charges on wheat, oats, barley and corn were lower by one cent (1c) and on rye and flax by one and one-half cents (1 1/2c) per bushel than charges at the Pacific and Lakehead terminals.

MAINTENANCE

All elevators including equipment and trackage have been maintained in good condition. Extensive and necessary repairs and improvements have been made or are in progress. These include new and replacement disc and cylinder cleaning machines at Moose Jaw, Saskatoon and Calgary; repairs to concrete walls at Lethbridge and Prince Rupert; staff buildings and millwright shops at Moose Jaw and Saskatoon; water and sewer connection at Saskatoon, and dust control system at Prince Rupert.

STAFF

The staffs employed as at December 31, 1954, compared with figures for December 31, 1953, were as follows:

	1954		1953	
	Total	Casuals included in totals	Total	Casuals included in totals
Winnipeg (Head Office).....	8	—	8	—
Moose Jaw.....	29	3	28	3
Saskatoon.....	33	7	34	10
Calgary.....	34	4	34	4
Edmonton.....	30	4	31	4
Lethbridge.....	20	1	21	2
Prince Rupert.....	44	20	63	36
	198	39	219	59

REVENUE AND EXPENDITURE

Revenue and expenditure for the fiscal year 1953-54 compared with the previous fiscal year were as follows:

	1953-54	1952-53
Revenue.....	\$1,884,064	\$1,514,295
Expenditure.....	1,104,990	1,070,623
Surplus.....	779,074	443,672

For the first nine months of the current fiscal year revenue was \$1,565,741 and expenditure was \$640,151.

APPENDIX K

Table K-1.—Revenue, by Point and Branch, Fiscal Year ended March 31, 1954

Point and Branch	Fees	Samples Sold	Penalties	Miscellane. Revenue
	\$ cts.	\$ cts.	\$ cts.	\$ cts.
WINNIPEG—				
Executive.....	—	—	1,500 00	—
License and Bonding.....	29,383 00	—	—	—
Registration.....	38,349 27	—	—	6 3
Appeal Tribunal.....	1,389 00	—	—	—
Inspection.....	501,897 75	13,735 29	—	3,596 8
Weighing.....	21,674 87	—	—	—
CHURCHILL—				
Inspection.....	35,656 45	—	—	—
Weighing.....	17,831 67	—	—	—
KEEWATIN—				
Inspection.....	5,594 80	—	—	—
Weighing.....	6,780 05	—	—	—
SASKATOON—				
Inspection.....	23,048 02	965 70	—	—
Weighing.....	15,597 14	—	—	—
MOOSE JAW—				
Inspection.....	9,396 98	331 34	—	—
Weighing.....	4,752 73	—	—	—
MEDICINE HAT—				
Inspection.....	9,151 30	491 11	—	—
Weighing.....	10,228 95	—	—	—
LETHBRIDGE—				
Inspection.....	789 75	112 43	—	—
Weighing.....	303 87	—	—	—
CALGARY—				
Inspection.....	107,263 79	2,701 19	—	353 0
Weighing.....	17,196 11	—	—	—
Appeal Tribunal.....	1,140 00	—	—	—
EDMONTON—				
Inspection.....	107,681 86	2,552 50	—	460 0
Weighing.....	3,968 73	—	—	—
Appeal Tribunal.....	1,179 00	—	—	—
VANCOUVER—				
Inspection.....	266,535 80	10,645 84	—	—
Weighing.....	217,543 63	—	—	—
Registration.....	11,812 44	—	—	—
FORT WILLIAM—				
Inspection.....	928,808 15	16,710 26	—	121 35
Weighing.....	710,266 89	—	—	12 0
TORONTO—				
Inspection.....	6,421 71	103 50	—	—
MONTRÉAL—				
Inspection.....	9,979 24	480 72	—	15 0
Inspection fees refunded.....	Cr. 878 93	—	—	—
Registration.....	11,239 14	—	—	—
CHATHAM—				
Inspection.....	74,853 41	1,309 94	—	88 5
PRINCE RUPERT—				
Inspection.....	22,037 14	481 79	—	—
Weighing.....	16,876 19	—	—	—
VICTORIA—				
Inspection.....	8,863 74	118 32	—	—
Weighing.....	6,671 02	—	—	—

* Refund of previous year's expenditure.

† Includes \$18.06 refund of previous year's expenditure.

Table K-2.—EXPENDITURE, by Point, Branch and General Item, Fiscal Year ended March 31, 1954

Point and Branch	Salaries		Rent		Travelling Expenses		General Expenses		Printing Stationery	
	\$	cts.	\$	cts.	\$	cts.	\$	cts.	\$	cts.
WINNIPEG—										
Executive.....	87,818	73	8,195	48	6,693	23	34,679	49	10,677	08
Assistant Commissioner.....	1,805	09	831	00	286	35	132	00	1	15
License and Bonding.....	22,294	93	2,010	00	—	—	450	69	2,127	04
Registration.....	30,963	60	2,785	20	472	05	907	39	599	84
Research Laboratory.....	122,510	48	16,624	80	2,869	45	25,997	54	3,960	92
Statistics.....	65,718	54	5,085	44	3,674	71	11,967	46	6,613	16
Appeal Tribunal.....	5,540	00	584	40	—	—	1,083	18	—	1 32
Standards Committees.....	—	—	—	—	3,144	50	2,230	00	—	—
Inspection.....	565,442	47	25,848	40	2,150	27	30,935	54	10,929	99
Weighing.....	49,060	06	2,077	20	321	96	992	30	376	74
CHURCHILL—										
Inspection.....	12,484	26	—	—	5,376	61	55	38	—	—
Weighing.....	6,052	52	—	—	3,137	65	26	38	—	—
KEEWATIN—										
Inspection.....	5,706	56	—	—	—	—	—	—	67	96
Weighing.....	7,456	64	—	—	—	—	58	57	—	—
SASKATOON—										
Assistant Commissioner.....	11,139	09	—	—	2,862	08	612	79	33	05
Inspection.....	32,310	51	877	00	—	—	611	28	381	53
Weighing.....	20,561	29	—	—	1,017	66	12	00	—	—
MOOSE JAW—										
Inspection.....	29,331	35	1,296	00	—	—	804	72	220	10
Weighing.....	15,851	60	—	—	—	—	12	80	—	—
MEDICINE HAT—										
Inspection.....	9,658	21	841	00	—	—	141	14	158	60
Weighing.....	10,735	74	—	—	—	—	—	—	—	—
LETHBRIDGE—										
Inspection.....	9,438	21	—	—	—	—	40	00	86	10
Weighing.....	6,239	13	—	—	212	12	8	00	—	—
CALGARY—										
Assistant Commissioner.....	11,366	60	828	00	3,404	39	488	13	25	06
Inspection.....	81,644	23	3,001	00	—	—	3,161	80	1,591	53
Weighing.....	36,258	50	314	04	—	23	35	285	98	—
Appeal Tribunal.....	5,540	00	420	00	—	—	992	34	36	—
EDMONTON—										
Inspection.....	98,774	14	8,754	00	1,088	59	3,715	67	1,669	80
Weighing.....	11,710	34	—	—	—	—	152	91	—	—
Appeal Tribunal.....	6,380	00	1,170	00	—	—	998	23	1	56
VANCOUVER—										
Inspection.....	151,887	61	6,965	40	1,074	43	5,405	24	1,886	39
Weighing.....	160,251	48	2,675	40	334	64	2,331	12	1,087	65
Registration.....	8,691	56	1,795	20	—	—	362	59	83	86
FORT WILLIAM—										
Inspection.....	684,796	22	17,872	00	6,698	23	15,915	76	8,054	89
Weighing.....	500,428	15	4,461	00	30,243	23	5,596	56	5,233	27
TORONTO—										
Inspection.....	9,316	56	1,200	00	—	—	453	00	87	86
MONTREAL—										
Inspection.....	88,601	93	4,296	00	8,777	66	1,824	32	555	17
Weighing.....	4,040	00	939	36	75	90	275	59	257	82
Registration.....	11,689	86	1,064	64	—	—	373	28	141	16
CHATHAM—										
Inspection.....	36,126	42	1,140	00	17,238	27	2,227	83	299	30

Table K-3.—Summary of Operations by Branches, Fiscal Year ended March 31, 1954

EXPENDITURE

Salaries.....	1,831,051	98	838,696	32	17,460	00	51,345	02	22,294	93	65,718	54	122,510	48	—	112,129	51	3,061,206	78		
72,090	80	10,467	00	2,	174	40	5,	645	04	2,010	00	85,055	44	16,	624	80	854	48	123,951	96	
43,330	91	40,582	19	—	472	05	—	3,	674	71	—	2,869	45	3,	144	50	13,246	05	107,319	86	
General Expenses.....	65,291	68	9,838	31	3,	073	75	1,643	26	450	69	11,967	46	25,	997	54	35,912	41	156,405	10	
Printing and Stationery.....	25,989	22	6,955	48	—	3	24	824	86	2,157	04	6,613	16	3,	960	92	—	10,736	34	51,210	26
Totals.....	2,037,754	59	906,539	30	22,711	39	59,930	23	26,882	66	93,059	31	171,963	19	5,374	50	181,878	79	3,506,093	96	

Total Revenue \$3,318 178 54

THE COMMUNIST LEADERSHIP IN TURKEY

Table K-4.—Revenue and Expenditure, by Points and Branches, Fiscal Year ended March 31, 1954

	Inspection	Weighing	Appeal Tribunals	Registration	Licence and Bonding	Statistics	Research Laboratory	Grain Standards Committee	Administration	Total
	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
REVENUE										
Winnipeg.....	519,229 85	21,674 87	1,389 00	38,355 61	29,383 00	—	—	—	—	1,500 00
Churchill.....	35,656 45	17,831 67	—	—	—	—	—	—	—	—
Keewatin.....	5,594 80	6,750 05	—	—	—	—	—	—	—	12,374 85
Saskatoon.....	24,013 72	15,597 14	—	—	—	—	—	—	—	36,610 86
Moose Jaw.....	9,728 32	4,752 73	—	—	—	—	—	—	—	14,481 05
Medicine Hat.....	9,642 41	10,228 95	—	—	—	—	—	—	—	19,871 36
Lethbridge.....	902 18	303 87	—	—	—	—	—	—	—	1,206 05
Calgary.....	110,317 98	17,496 11	1,140 00	—	—	—	—	—	—	128,654 09
Edmonton.....	110,694 36	3,968 73	1,179 00	—	—	—	—	—	—	115,842 09
Vancouver.....	277,181 64	217,543 63	—	11,812 44	—	—	—	—	—	506,537 71
Fort William.....	945,639 76	710,278 89	—	—	—	—	—	—	—	1,665,918 65
Toronto.....	6,525 21	—	—	—	—	—	—	—	—	6,525 21
Montreal.....	9,336 94	—	—	11,239 14	—	—	—	—	—	20,836 08
Chatham.....	76,251 89	—	—	—	—	—	—	—	—	76,251 89
Prince Rupert.....	22,518 93	16,876 19	—	—	—	—	—	—	—	39,395 12
Victoria.....	8,982 06	6,671 02	—	—	—	—	—	—	—	15,633 08
Totals.....	2,172,476 50	1,049,703 85	3,708 00	61,407 19	29,383,00	—	—	—	—	1,500 00
										3,318,178 54

Table K-4.—Revenue and Expenditure, by Points and Branches, Fiscal Year ended March 31, 1954.—Concluded

	Inspection	Weighing	Appeal Tribunals	Registration	Licence and Bonding	Statistics	Research Laboratory	Grain Standards Committee	Administration	Total
	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
EXPENDITURE										
Winnipeg.....	635,306 67	52,828 26	7,208 90	35,728 08	26,882 66	93,059 31	171,963 19	5,374 50	151,119 60	1,179,471 17
Churchill.....	17,916 25	9,216 55	7,515 21	—	—	—	—	—	—	27,132 80
Keewatin.....	5,774 52	—	—	—	—	—	—	—	—	13,289 73
Saskatoon.....	34,180 32	21,590 95	—	—	—	—	—	—	—	70,418 28
Moose Jaw.....	31,652 17	15,864 40	—	—	—	—	—	—	—	47,516 57
Medicine Hat.....	10,798 95	10,735 74	—	—	—	—	—	—	—	21,534 69
Lethbridge.....	9,564 31	6,459 25	—	—	—	—	—	—	—	16,023 56
Calgary.....	89,398 56	36,881 87	6,952 70	—	—	—	—	—	—	149,345 31
Edmonton.....	114,002 20	11,863 25	8,549 79	—	—	—	—	—	—	134,415 24
Vancouver.....	167,219 07	166,680 29	—	10,933 21	—	—	—	—	—	344,832 57
Fort William.....	733,337 10	546,962 21	—	—	—	—	—	—	—	1,279,299 31
Toronto.....	11,057 42	—	—	—	—	—	—	—	—	11,057 42
Montreal.....	104,055 08	5,588 67	—	13,268 94	—	—	—	—	—	122,912 69
Chatham.....	57,031 82	—	—	—	—	—	—	—	—	57,031 82
Prince Rupert.....	9,481 01	9,873 46	—	—	—	—	—	—	—	19,354 47
Victoria.....	6,979 14	5,479 19	—	—	—	—	—	—	—	12,458 33
Totals.....	2,037,754 59	906,539 30	22,711 39	59,930 23	26,882 66	93,059 31	171,963 19	5,374 50	181,828 79	3,506,093 96

Total Revenue.....\$3,318,178 54
 Total Expenditure.....3,506,093 96
 Net Deficit.....187,915 42

APPENDIX L**Regulations**

Regulations in effect December 31, 1954, made in accordance
with the provisions of the Canada Grain Act

Regulation

No.

- 1 Registration and Cancellation of Terminal Elevator Warehouse Receipts.
- 2 Registration and Cancellation of Eastern Warehouse Receipts and Transfer Receipts.
- 3 Construction of Elevators.
- 4 Cleaning Grain and Bins, Terminal Elevators.
- 5 Off Grades for Western Grain.
- 6 Off Grades for Eastern Grain.
- 7 Grades of Screenings.
- 8 Inspection of Samples taken other than at an Inspection Point.
- 9 Appeals from Inspecting Officers to Grain Appeal Tribunals.
- 10 Delivery of Grain to Ocean Vessels at Montreal, Quebec.
- 11 Delivery of Grain to Ocean Vessels at West Saint John, N.B.
- 12 Delivery of Grain to Ocean Vessels at East Saint John, N.B.
- 13 Delivery of Grain to Ocean Vessels at Halifax, N.S.
- 14 Enforcement of Lien by Sale of Grain.
- 15 Drying of Grain.
- 16 Fees.
- 17 Records, Reports and Returns.
- 18 Procedure, Country Elevators.
- 19 Receipt for Grain Delivered to Private Country Elevators and Mill Elevators.
- 20 Maximum Tariff of Charges, Eastern Elevators.
- 21 Maximum Tariff of Charges and Shrinkage Allowance, Country Elevators.
- 22 Maximum Tariff of Charges, Terminal Elevators.
- 23 Applications for Licences and Terms and Conditions under which Licences are Issued.
- 24 Storage in Transit of Grain Grown Outside Canada.
- 25 Tickets and Receipts—Country Elevators.
- 26 Delivery of Treated Grain to Elevators.

APPENDIX M**List of Board Publications****GENERAL**

BOARD OF GRAIN COMMISSIONERS FOR CANADA REPORT FOR 1953. 82 p.
Available from Queen's Printer, Ottawa. Price, 50 cents.

HANDBOOK ON THE SALE AND HANDLING OF GRAIN THROUGH A COUNTRY ELEVATOR (1949). 82 p. Available from Board of Grain Commissioners for Canada, Winnipeg. No charge.

- THE FARMER AND THE COUNTRY ELEVATOR (1953). Offset. 24 p. Available from Board of Grain Commissioners for Canada, Winnipeg. No charge.
- GRAIN ELEVATORS IN CANADA (1954). Offset. 232 p. Available from Queen's Printer, Ottawa. Price, 50 cents.
- REGULATIONS OF THE BOARD OF GRAIN COMMISSIONERS FOR CANADA—SOR/54-348. (Reprint from the Canada Gazette Part II of Wednesday, August 25, 1954.) 52 p. Available from Queen's Printer, Ottawa.

LABORATORY PUBLICATIONS

- (Available from Grain Research Laboratory, Board of Grain Commissioners for Canada, Winnipeg. No charge).
- GRAIN RESEARCH LABORATORY, 1953 REPORT (1954) Offset. 78 p.
- GRAIN RESEARCH LABORATORY, 1954 REPORT (in press).
- MAP OF WESTERN CANADA SHOWING THE PROTEIN CONTENT OF HARD RED SPRING WHEAT, 1954 PRELIMINARY MAP, October 6, 1954. Offset. 2 colour, 11 x 21 inches.
- MAP OF WESTERN CANADA SHOWING THE PROTEIN CONTENT OF HARD RED SPRING WHEAT, 1954 FINAL MAP. Offset. 2 colour, 11 x 21 inches.
- CANADIAN WHEAT, 1954, CROP BULLETIN No. 53. Offset. 16 p.
- PROTEIN SURVEY OF WHEAT, 1954, CROP BULLETIN No. 54. Offset. 34 p.
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STATISTICS BRANCH

- (Available from Statistics Branch, Board of Grain Commissioners for Canada, Winnipeg. No charge).
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- CANADIAN GRAIN EXPORTS, Crop Year 1953-54. Offset. 32 p.
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